

# Power and Performance Metrics and Logs

Get power and performance metrics, logs, and signatures.

## Overview

The `perfPowerMetricsresource` resource is a read-only resource where you get the power and performance metrics and diagnostics for App Store versions of your app. Use this information to improve your app's performance. Customers can opt-in to share this information with you on their devices.

A *metric* is a measurement of the power and performance impact of an app running on a device. The `MetricCategory` type lists the categories of measurements the system makes; for example, the LAUNCH metric measures how long it takes an app to present its first frame. Use the [Get Power and Performance Metrics for an App](#) and [Get Power and Performance Metrics for a Build](#) endpoints to get the metrics reports for the most recent version of your app or for a specific build.

An *insight* is an automatically generated analysis that shows a trend based on a set of metrics data. Insights compare the performance of the most recent app version with previous versions. Look for insights in the response body object, `xcodeMetrics`.

A *diagnostic signature* is a recurring pattern of function calls your app makes that are associated with a metric. To get a diagnostic log for a signature, first call the [List All Diagnostic Signatures for a Build](#) endpoint to get the resource IDs for signatures you're interested in. Then call [Download Logs for a Diagnostic Signature](#) using the signature resource IDs to download the logs.

To learn more about power and performance metrics, see [About Metrics organizer](#), and [Improving Your App's Performance](#).

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# Topics

## Getting Metrics and Diagnostic Logs

`{}` Retrieve Power and Performance Metrics and Log Insights

Use the App Store Connect API to collect and parse diagnostic logs and metrics for your apps.

Get Power and Performance Metrics for an App

Get the performance and power metrics data for the most recent version of an app.

Get Power and Performance Metrics for a Build

Get the performance and power metrics data for a specific build.

List All Diagnostic Signatures for a Build

List the aggregate backtrace signatures captured for a specific build.

Download Logs for a Diagnostic Signature

Get the anonymized backtrace logs associated with a specific diagnostic signature.

## Objects and Types

`object` `xcodeMetrics`

A response that contains power and performance measurements for your app.

`object` `DiagnosticInsight`

The data structure that represents the Diagnostic Insight resource.

`object` `DiagnosticSignaturesResponse`

A response that contains a list of Diagnostic Signature resources.

`object` `DiagnosticSignature`

The data structure that represents the Diagnostic Signatures resource.

`object` `diagnosticLogs`

A response containing log data for a diagnostic signature.

`object` `DiagnosticLog`

The data structure that represents the Diagnostic Logs resource.

`object DiagnosticLogCallStackNode`

Diagnostic information that describes a single line in a call stack.

`object MetricsInsight`

Results of an analysis of metric data for a single metric category for your app.

`type MetricCategory`

Categories of metric reports for apps that you distribute through the App Store.

`object PerfPowerMetric`

Unused.

`object AppPerfPowerMetricsLinkagesResponse`

`object DiagnosticSignatureLogsLinkagesResponse`

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## See Also

### Related Documentation

 [Generating Tokens for API Requests](#)

Create JSON Web Tokens (JWTs) signed with your private key to authorize API requests.

### Reporting

 [Sales and Finance](#)

Download your sales and financial reports.

 [Analytics](#)

Get data about your apps and usage.