



Using the Amazon CloudWatch Adapter

Version 2025.1
2025-06-03

Using the Amazon CloudWatch Adapter
PDF generated on 2025-06-03
InterSystems IRIS® Version 2025.1
Copyright © 2025 InterSystems Corporation
All rights reserved.

InterSystems®, HealthShare Care Community®, HealthShare Unified Care Record®, IntegratedML®, InterSystems Caché®, InterSystems Ensemble®, InterSystems HealthShare®, InterSystems IRIS®, and TrakCare are registered trademarks of InterSystems Corporation. HealthShare® CMS Solution Pack™, HealthShare® Health Connect Cloud™, InterSystems® Data Fabric Studio™, InterSystems IRIS for Health™, InterSystems Supply Chain Orchestrator™, and InterSystems TotalView™ For Asset Management are trademarks of InterSystems Corporation. TrakCare is a registered trademark in Australia and the European Union.

All other brand or product names used herein are trademarks or registered trademarks of their respective companies or organizations.

This document contains trade secret and confidential information which is the property of InterSystems Corporation, One Congress Street, Boston, MA 02114, or its affiliates, and is furnished for the sole purpose of the operation and maintenance of the products of InterSystems Corporation. No part of this publication is to be used for any other purpose, and this publication is not to be reproduced, copied, disclosed, transmitted, stored in a retrieval system or translated into any human or computer language, in any form, by any means, in whole or in part, without the express prior written consent of InterSystems Corporation.

The copying, use and disposition of this document and the software programs described herein is prohibited except to the limited extent set forth in the standard software license agreement(s) of InterSystems Corporation covering such programs and related documentation. InterSystems Corporation makes no representations and warranties concerning such software programs other than those set forth in such standard software license agreement(s). In addition, the liability of InterSystems Corporation for any losses or damages relating to or arising out of the use of such software programs is limited in the manner set forth in such standard software license agreement(s).

THE FOREGOING IS A GENERAL SUMMARY OF THE RESTRICTIONS AND LIMITATIONS IMPOSED BY INTERSYSTEMS CORPORATION ON THE USE OF, AND LIABILITY ARISING FROM, ITS COMPUTER SOFTWARE. FOR COMPLETE INFORMATION REFERENCE SHOULD BE MADE TO THE STANDARD SOFTWARE LICENSE AGREEMENT(S) OF INTERSYSTEMS CORPORATION, COPIES OF WHICH WILL BE MADE AVAILABLE UPON REQUEST.

InterSystems Corporation disclaims responsibility for errors which may appear in this document, and it reserves the right, in its sole discretion and without notice, to make substitutions and modifications in the products and practices described in this document.

For Support questions about any InterSystems products, contact:

InterSystems Worldwide Response Center (WRC)
Tel: +1-617-621-0700
Tel: +44 (0) 844 854 2917
Email: support@InterSystems.com

Table of Contents

Using the Amazon CloudWatch Adapter	1
1 Outbound Adapter Details	1
2 Built-in Business Operation	1
3 General AWS Settings	2

Using the Amazon CloudWatch Adapter

[Amazon CloudWatch](#) is an AWS product that allows you to monitor an application by collecting data for specific metrics. Once you have created a metric in CloudWatch, you can use a business operation in an InterSystems interoperability production to update CloudWatch with values for that metric. InterSystems provides a built-in business operation that uses the CloudWatch outbound adapter to interact with CloudWatch. You also have the option of creating a custom business operation that uses this adapter. If you are new to interoperability productions, including the use of business operations and outbound adapters, see [Introduction to Interoperability Productions](#).

Important: Currently, only the `PutMetricData` method of the CloudWatch adapter is fully functional. Do not attempt to use the `PutMetricAlarm` method to work with CloudWatch alarms as this method may change in future releases.

1 Outbound Adapter Details

The class of the CloudWatch outbound adapter is `EnsLib.AmazonCloudWatch.OutboundAdapter`. Within this class, the `PutMetricData` method contains the logic that updates CloudWatch with a value for a specific metric. The signature of this method is:

```
Method PutMetricData(namespace As %String, metricName As %String,  
    metricValue As %Numeric, metricUnit As %String,  
    dims As %String = "") As %Status
```

Where:

- `namespace` is the metric's [CloudWatch namespace](#).
- `metricName` is the name of the metric.
- `metricValue` is the datapoint being sent to CloudWatch for the specified metric.
- `metricUnit` is the unit of measure for the metric value. This unit of measure is required. For a list of valid units, see the [Amazon CloudWatch JavaDoc reference](#).
- `dims` is a JSON array with name/value pairs that represent the metric's [dimensions](#). For example,

```
[{"Name": "StorageType", "Value": "StandardStorage"}, {"Name": "BucketName", "Value": "test-bazco"}]
```

2 Built-in Business Operation

Rather than developing a custom business operation that uses the outbound adapter, you can save time and effort by adding the `EnsLib.AmazonCloudWatch.MetricDataOperation` business operation to the interoperability production. Once added, the production can send a pre-built request that contains the metric data to the business operation. The class of this pre-built request is `EnsLib.AmazonCloudWatch.PutMetricDataRequest`.

The business operation contains properties that correspond to the adapter parameters that identify the CloudWatch metric, for example, name and namespace. Once you have added the business operation to the production, you can set these properties using the corresponding Management Portal settings. For instructions on adding a business operation to a production, see [Adding Business Hosts](#).

3 General AWS Settings

The CloudWatch outbound adapter extends a common adapter class that includes general AWS properties. When you add a business operation that uses the outbound adapter to a production, these AWS properties can be set using the **AWS** settings in the Management Portal.

CredentialsFile — If blank, Amazon uses the [default credential provider chain](#) to obtain the credentials needed to access CloudWatch. If you prefer to use an AWS credential file, enter its filepath.

Region — Identifies the AWS region that you want to access. For a list of CloudWatch regions, see [Amazon Regions](#), [Availability Zones](#), and [Local Zones](#)