

Unified Assurance V6 - API

Student Guide
D1105872GC10

Learn more from Oracle University at education.oracle.com



Copyright © 2025, Oracle and/or its affiliates.

Disclaimer

This document contains proprietary information and is protected by copyright and other intellectual property laws. The document may not be modified or altered in any way. Except where your use constitutes "fair use" under copyright law, you may not use, share, download, upload, copy, print, display, perform, reproduce, publish, license, post, transmit, or distribute this document in whole or in part without the express authorization of Oracle.

The information contained in this document is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

Restricted Rights Notice

If this documentation is delivered to the United States Government or anyone using the documentation on behalf of the United States Government, the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software" or "commercial computer software documentation" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

Trademark Notice

Oracle®, Java, MySQL, and NetSuite are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

Third-Party Content, Products, and Services Disclaimer

This documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

08042025

Table of Contents

Overview	7
Objectives	8
What is REST API?	9
What is REST API? (Cont.)	10
Why use the REST API?	11
Principles of Unified Assurance REST API	12
Why use the Unified Assurance REST API?	13
Why use the Unified Assurance REST API? (Cont.)	14
Recap	15
JSON	16
Objectives	17
What is JSON?	18
Benefits of JSON	19
JSON Files	20
JSON Syntax Rules	21
JSON Data - A Name and a Value	22
JSON Commas	23
JSON Objects	24
JSON Arrays	25
JSON Name (Keys)	26
JSON Values	27
JSON Commenting	28
Recap	29
REST API Structure	30

Objectives	31
Authentication	32
Basic Authentication (1)	34
Basic Authentication (2)	35
Authentication (Cont.)	36
Authorization	37
Path Parameters	38
Path Parameters (Cont.)	39
Query Parameters	40
Query Parameters (Cont.)	41
Request Body Schema	42
Request Body Schema (Cont.)	43
Response Body Schema	44
REST API Methods	46
Unified Assurance Custom API Methods - readForSelect	47
Unified Assurance Custom API Methods – readForSelect (Cont.)	48
Unified Assurance Custom API Methods – readForSelect (Cont.)	49
Unified Assurance Custom API Methods - readInstances	50
Unified Assurance Custom API Methods - readMetricInstances	51
Unified Assurance Custom API Methods - readMetricTypes	52
Unified Assurance Custom API Methods - executeStop	53
Unified Assurance Custom API Methods- executeStart	54
Unified Assurance Custom API Methods - executeRestart	55
Recap	56
Batch API	57
Objectives	58

What is the Batch Processing API?	59
Batch API ‘response’	60
Batch API ‘response’ (Cont.)	61
Batch API ‘response’ (Cont.)	62
Batch API ‘response’ : ‘varType’	63
Batch API Read and Loop	65
Recap	66
Assure1 API Access Methods via Perl	67
Objectives	68
Unified Assurance API Access Methods using Perl	69
Assure1::API – Advantages vs Disadvantages	70
Assure1::API Authentication Methods (1)	71
Assure1::API Authentication Methods (2)	72
Assure1::API Authentication Methods (3)	73
Assure1::API – Create Event Filters Example (1)	74
Assure1::API – Create Event Filters Example (2)	75
Assure1::API – Create Event Filters Example (3)	76
Assure1::API – Create Event Filters Example (4)	77
Assure1::API – Create Event Filters Example (5)	78
Assure1::API – Create Event Filters Example (6)	79
CallAPI	80
CallAPI – Advantages vs Disadvantages	81
Recap	82
Unified Assurance API Training	83
Objectives	84
API Examples: Web Developer Tools Console	85

API Examples: Web Developer Tools Console (Cont.)	86
API Examples: Web Developer Tools Console (Cont.)	87
API Examples: Presentation server	88
Recap	89
Trouble Shooting & Best Practices	90
Objectives	91
JSON Best Practices	92
JSON Best Practices (Cont.)	93
JSON Trouble Shooting	95
JSON Trouble Shooting (Cont.)	96
API Trouble Shooting	97
API Trouble Shooting (Cont.)	98
API Usage Best Practices	100
Recap	101