Oracle® Transaction Manager for Microservices

Licensing Information User Manual

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Contents

1 Introduction

Transaction Manager for Microservices Offerings 1-1
Features of Transaction Manager for Microservices Offerings 1-1

2 Oracle Free Use Terms and Conditions

3 Third-Party License Information

axios 1.4.0 3-1
Bouncy Castle Crypto API 1.76 3-3
CDI-API 2.0.2 3-4
CDI-API 3.0.1 3-23
CDI-API 4.0.1 3-233
client-java-proto 17.0.2 3-251
Commons Compress 1.24.0 3-257
etcd 3.5.9 3-262
godror 0.37.0 3-274
go.uber.org/automaxprocs 1.5.3 3-282
grpc-go 1.58.2 3-283
Helidon 2.6.3 3-320
hibernate-core 5.6.15.Final 3-412
hibernate-core 6.1.1.Final 3-446
jackson-databind 2.15.2 3-474
Jakarta Annotations API 1.3.5 3-481
Jakarta Annotations API 2.1.1 3-495
Jakarta Persistence API (JPA API) 3.1.0 3-508
Jakarta Restful Web Services JAX-RS API 2.1.6 3-515
Jakarta Restful Web Services JAX-RS API 3.1.0 3-529
Jakarta Transactions API (JTA API) 1.3.3 3-544
Jakarta Transactions API (JTA API) 2.0.1 3-555
Java Persistence API 2.2.0 3-571
jersey-apache-connector 2.39.1 3-579

jersey-apache-connector 3.1.2 3-596
jersey-common 2.35 3-618
jersey-common 2.40 3-639
jersey-common 3.1.2 3-662
jwt-go 5.0.0 3-684
Kubernetes Java Client 18.0.0 3-684
JWX 2.0.11 3-707
Log4j-API 2.20.0 3-723
log4j-core 2.20.0 3-728
log4j-slf4j-impl 2.20.0 3-737
Lombok 1.18.24 3-744
node-oracledb 6.1.0 3-746
node-oracledb 6.0.1 3-753
OkHttp 4.11.0 3-754
Prometheus Go client library 1.16.0 3-765
properties-reader 2.3.0 3-778
Ristretto 0.1.1 3-779
slf4j-api 2.0.9 3-787
swagger-annotations 2.2.12 3-787
swagger-annotations-jakarta 2.2.12 3-792
swagger-jaxrs2-jakarta 2.2.12 3-796
TypeScript 5.1.3 3-832
uuid 1.3.0 3-836
uuid 9.0.0 3-837
yaml 3.0.1 3-838
zap 1.24.0 3-844

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Features of Transaction Manager for Microservices Offerings

The following features are available only in the Transaction Manager for Microservices Enterprise Edition. Use this information to determine the Transaction Manager for Microservices offering that is right for you.

- Cache the transaction logs that are stored in etcd or Oracle Database to improve performance and optimize the read and write operations.
- Access the Transaction Manager for Microservices console to view the health of all the replicas of the transaction coordinator and manage transactions using an easy-to-use graphical web console.
- Use Oracle Real Application Clusters (RAC) as a resource manager for Node.js, JAX-RS, and Spring REST applications that use the XA transaction protocol.
- Manage local transactions and when required automatically promote local transactions to global transactions. This feature is available only in Oracle Database.
- Store transaction details in Oracle Database or etcd.

- Deploy multiple replicas of Transaction Manager for Microservices. Oracle recommends a minimum of 3 replicas for production environments.
- Optimize transactions for participant services that use a common resource manager. Based on your business requirements, you may use a single resource manager for multiple transaction participant services. When you use a common resource manager for multiple participant services, Transaction Manager for Microservices can optimize the commit processing resulting in higher throughput and lower latency for XA transactions.
- Visualize coordinator metrics using Grafana. The Transaction Manager for Microservices coordinator exposes metrics in a format that can be easily read by Prometheus. Use Grafana to visualize the metrics data collected into Prometheus. You can import Transaction Manager for Microservices dashboards to view the metrics in Grafana. Use these metrics to monitor your transactions and health of the Transaction Manager for Microservices coordinator.
- Recover transactions information in case the transaction coordinator server fails. Transaction Manager for Microservices resumes the transactions that are in progress after the server restarts.
- Run up to 4800 transactions per hour across all the transaction protocols and across all replicas of the transaction coordinator when you use MicroTx Free. There is no limit on the number of transactions in Transaction Manager for Microservices Enterprise Edition.

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integrations-cdi-datasource-hikaricp, helidon-integrations-cdi-datasource-
ucp, helidon-integrations-cdi-jedis, helidon-integrations-micronaut-cdi,
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messaging-mock, helidon-microprofile-cdi, helidon-microprofile-fault-
tolerance, helidon-microprofile-health, helidon-microprofile-openapi,
helidon-service-common-rest-cdi]
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Romain Manni-Bucau rmannibucau@apache.org,
Ron Smeral rsmeral@apache.org,
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MicroProfile Fault Tolerance API  Eclipse Foundation
Apache 2.0
Used by: [helidon-microprofile-fault-tolerance]
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MicroProfile GraphQL API  Eclipse Foundation
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narayana-client, helidon-lra-coordinator-server, helidon-microprofile-
graphql-server, helidon-microprofile-lra]
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tracing-tracer-resolver, helidon-tracing-zipkin]
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opentracing-util: 0.33.0, Apache 2.0
opentracing-mock: 0.33.0, Apache 2.0
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cdi, helidon-metrics-prometheus]
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slf4j-ext
jcl-over-slf4j
log4j-over-slf4j
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Used by: [helidon-config-yaml, helidon-openapi]
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Used by: [helidon-config-etcd, helidon-config-hocon, helidon-config-
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hocon-mp, helidon-config-tests-test-bundle]
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Zipkin Reporter Java  The OpenZipkin Authors
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Used by: [helidon-tracing-zipkin]
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Zipkin Reporter for Java
Zipkin Sender: URLConnection (io.zipkin.reporter2:zipkin-sender-
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classgraph  Luke Hutchinson
MIT
Used by: [helidon-graal-native-image-extension]
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etcd4j  Jurriaan Mous
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Used by: [helidon-config-etcd]
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  com.fasterxml.jackson.core:jackson-databind
  com.fasterxml.jackson.core:jackson-annotations
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  Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
  # Jackson JSON processor

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gRPC-Java  The gRPC Authors
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Used by: [helidon-config-etcd, helidon-grpc-core, io.grpc]
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grpc-java (io.grpc:grpc-*)
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micrometer-core  VMware
Apache 2.0
Used by: [helidon-integrations-micrometer]
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Fourth Party Runtime Dependencies
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"HdrHistogram" (org.hdrhistogram:HdrHistogram)

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    * https://github.com/python-hyper/hpack/

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  * HOMEPAGE:
    * https://github.com/takari/maven-wrapper

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retrieve the system DNS configuration on MacOS.
```

```
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 mDNSResponder (https://opensource.apple.com/tarballs/mDNSResponder/).

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 *
 * @APPLE_LICENSE_HEADER_END@
 */
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    * https://www.opensource.apple.com/source/configd/configd-453.19/
dnsinfo/dnsinfo.h

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  * HOMEPAGE:
    * https://github.com/hyperxpro/Brotli4j
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opentelemetry-api  OpenTelemetry authors
Apache 2.0
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"Jackson-core" (com.fasterxml.jackson.core:jackson-core)
  Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
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opentelemetry-extension-trace-propagators  OpenTelemetry authors
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opentracing-tracerresolver  opentracing-contrib
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Used by: [helidon-tracing-tracer-resolver]
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opentracing-tracerresolver: 0.1.8, Apache 2.0
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OpenTracing API for Java: 0.33.0, Apache 2.0 (opentracing-api is used
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  PackageLicenseDeclared: Apache-2.0

  PackageCopyrightText: <text>
  Mark Struberg struberg@apache.org,
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  Ondrej Mihalyi ondrej.mihalyi@gmail.com,
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  </text>
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helidon-security-integration-jersey, helidon-security-integration-jersey-
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 *   2016-07-20 - Romain Manni-Bucau
 *      Initial ConfigBuilder PR    0945b23cbf9dadb75fb9
 *   2016-11-14 - Emily Jiang / IBM Corp
 *      SPI reworked into own ConfigProviderResolver
 *   2016-12-02 - Viktor Klang
 *      removed ConfigFilter and security related functionality.
 *
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hibernate-core 6.1.1.Final

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Jakarta Persistence API (JPA API) 3.1.0

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Jakarta Restful Web Services JAX-RS API 2.1.6

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* https://github.com/eclipse-ee4j/jaxrs-api

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Jakarta Restful Web Services JAX-RS API 3.1.0

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rand\"\n\t\"strings\"\n\t\"testing\"\n\n\t\"github.com/google/safehtml/
template\"\n\t\"golang.org/x/tools/gopls/internal/lsp/
diff\"\n\t\"golang.org/x/tools/internal/diff/
difftest\"\n\t\"golang.org/x/tools/gopls/internal/span\"\n)\n"
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(\n\t\"fmt\"\n\t\"math/
rand\"\n\t\"strings\"\n\t\"testing\"\n\n\t\"golang.org/x/tools/gopls/
internal/lsp/diff\"\n\t\"golang.org/x/tools/internal/diff/
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annotations:2.15.1 - https://github.com/FasterXML/jackson)
* jackson-databind (com.fasterxml.jackson.core:jackson-databind:2.15.1
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from the source code management (SCM) system project uses.

## FastDoubleParser

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jakarta:2.2.12 - https://github.com/swagger-api/swagger-core/modules/
swagger-annotations-jakarta)
* swagger-core-jakarta (io.swagger.core.v3:swagger-core-jakarta:2.2.12
- https://github.com/swagger-api/swagger-core/modules/swagger-core-
jakarta)
* swagger-integration-jakarta (io.swagger.core.v3:swagger-integration-
jakarta:2.2.12 - https://github.com/swagger-api/swagger-core/modules/
```

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swagger-integration-jakarta)
* swagger-models-jakarta (io.swagger.core.v3:swagger-models-jakarta:2.2.12 -
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The API repository
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https://github.com/eclipse-ee4j/jaxrs-api)
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