

# **Oracle Utilities Smart Grid Gateway**

Licensing Information User Manual

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Oracle Utilities Smart Grid Gateway Licensing Information User Manual

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# Contents

## Chapter 1

Introduction .....	1-1
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## Chapter 2

Licensing Information .....	2-1
License Restrictions Matrix .....	2-4
Functional Areas .....	2-5

## Chapter 3

Third Party Notices .....	3-1
Open Source or Other Separately Licensed Software .....	3-1

## Chapter 4

Third Party Notices and Licenses .....	4-1
Third-Party Products.....	4-2
Notice Concerning Usage of ANTLR .....	4-2
Notice Concerning Usage of Apache Software.....	4-2
Notice Concerning Usage of ASM.....	4-7
Notice Concerning Usage of CodeMirror.....	4-8
Notice Concerning Usage of Concurrent.....	4-8
Notice Concerning Usage of Cordova Plugin Pin Check.....	4-8
Notice of Usage of Cordova Plugin Shared Preferences .....	4-9
Notice of Usage of Cordova Plugin Secure Keystore .....	4-9
Notice of Usage of Cordova Plugin Fingerprint aio.....	4-10
Notice Concerning Usage of DOM4J .....	4-10
Notice Concerning Usage of FullCalendar .....	4-11
Notice Concerning Usage of ICU and ICU4J .....	4-11
Notice Concerning Usage of Jaxen .....	4-18
Notice Concerning Usage of JQuery (2.1.0, 3.3.1).....	4-19
Notice Concerning Usage of JQuery (3.4.1) .....	4-19
Notice Concerning Usage of JQueryMobile.....	4-20
Notice Concerning Usage of JQuery UI .....	4-20
Notice Concerning Usage of JSignature.....	4-21
Notice Concerning Usage of Knockout.....	4-21
Notice Concerning Usage of Microsoft .NET .....	4-21
Notice Concerning Usage of Moment.js .....	4-25
Notice Concerning Usage of SLF4J .....	4-25
Notice Concerning Usage of Staxmate.....	4-26
Notice Concerning Usage of Swagger-UI.....	4-26
Notice Concerning Usage of XML.PULL .....	4-32
Notice Concerning Usage of XStream .....	4-32

# Chapter 1

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## Introduction

This Licensing Information document is a part of the product or program documentation under the terms of your Oracle license agreement and is intended to help you understand the program editions, entitlements, restrictions, prerequisites, special license rights, and/or separately licensed third party technology terms associated with the Oracle software program(s) covered by this document (the “Program(s)”). Entitled or restricted use products or components identified in this document that are not provided with the particular Program may be obtained from the Oracle Software Delivery Cloud website (<https://edelivery.oracle.com>) or from media Oracle may provide. If you have a question about your license rights and obligations, please contact your Oracle sales representative, review the information provided in Oracle’s Software Investment Guide (<http://www.oracle.com/us/corporate/pricing/software-investment-guide/index.html>), and/or contact the applicable Oracle License Management Services representative listed on <http://www.oracle.com/us/corporate/license-management-services/index.html>.

# Chapter 2

## Licensing Information

Product	Subproduct	Licensing Information
Oracle Utilities Smart Grid Gateway	Oracle Utilities Smart Grid Gateway	<p>Oracle Utilities Smart Grid Gateway provides the core functionality for measurement data and device event loading and processing, and issuing and tracking smart meter command requests. Supported commands include: Remote Connect, Remote Disconnect, Commission Device, Decommission Device, On-Demand Read, Device Status Check, and Demand Reset.</p> <p><b>Included Products:</b> Oracle Utilities Service and Measurement Data Foundation</p> <p><b>Prerequisites:</b></p> <ul style="list-style-type: none"><li>• Oracle Database Enterprise Edition</li><li>• Oracle WebLogic Server Enterprise Edition</li><li>• Oracle SOA Suite (BPEL)</li><li>• Oracle Service Bus</li></ul> <p><b>Restrictions:</b> The Oracle Utilities Service and Measurement Data Foundation provides functionality used by multiple Oracle Utilities products, including Oracle Utilities Meter Data Management and Oracle Utilities Smart Grid Gateway. Some of the functionality provided with the Oracle Utilities Service and Measurement Data Foundation is restricted, and can only be used if specific products have been licensed. See <b>License Restrictions Matrix</b> on page 2-4 for more information.</p>
	Oracle Utilities Information Lifecycle Management for Meter Data	<p>Oracle Utilities Information Lifecycle Management for Meter Data contains a set of processes to support Information Lifecycle Management (ILM) for a number of high volume transactional data objects. The processes identify eligible historical records to facilitate the migration of data to lower cost storage or archived database.</p> <p><b>Prerequisites:</b></p> <ul style="list-style-type: none"><li>• Oracle Database Enterprise Edition and the Partitioning option are prerequisites for this option.</li></ul>

Product	Subproduct	Licensing Information
	Oracle Utilities Smart Grid Gateway Adapter Development Kit	<p>Provides the ability to configure standards-based integration to AMI head-end systems not currently supported by Oracle Utilities Smart Grid Gateway productized adapters, and enables integration with both AMI and AMR systems to support both data loading and smart meter command integration.</p> <p>Supported commands include Remote Connect, Remote Disconnect, Meter Commissioning, Meter Decommissioning, Device Status Check/Meter Ping, and On-Demand Read.</p>
	Oracle Utilities Smart Grid Gateway Adapter for Landis+Gyr	<p>Provides productized smart command integration with Landis + Gyr Gridstream Command Center, and converts Landis + Gyr measurement and device event data into a unified data format for use by downstream applications such as Oracle Utilities Meter Data Management.</p> <p>Supported commands include Remote Connect, Remote Disconnect, Meter Commissioning, Meter Decommissioning, Meter Retirement, Device Status Check/Meter Ping, On-Demand Read, and Demand Reset.</p>
	Oracle Utilities Smart Grid Gateway Adapter for Echelon	<p>Provides productized smart meter integration to Echelon NES., and converts bulk usage and event data from the Echelon XML format into a unified data format for use by downstream applications such as Oracle Utilities Meter Data Management.</p> <p>Supported commands include Remote Connect, Remote Disconnect, Meter Commissioning, Meter Decommissioning, Device Status Check/Meter Ping, and On-Demand Read.</p>
	Oracle Utilities Smart Grid Gateway MV-90 Adapter for Itron	<p>Supports conversion of MV-90 binary measurement data and interval status codes for use by downstream applications such as Oracle Utilities Meter Data Management.</p>
	Oracle Utilities Smart Grid Gateway Adapter for Sensus RNI	<p>Provides productized smart meter integration to Sensus RNI and converts usage and event data from the Sensus RNI specific format into a unified data format for use by downstream applications such as Oracle Utilities Meter Data Management.</p> <p>Supported commands include Remote Connect, Remote Disconnect, Meter Commissioning, Meter Decommissioning, Device Status Check/Meter Ping, and On-Demand Read.</p>
	Oracle Utilities Smart Grid Gateway Adapter for Silver Spring Networks	<p>Provides productized smart meter integration to Silver Spring Networks Utility IQ, and converts usage and event data from the Silver Spring Networks format into a unified data format for use by downstream applications such as Oracle Utilities Meter Data Management.</p> <p>Supported commands include Remote Connect, Remote Disconnect, Meter Commissioning, Meter Decommissioning, Device Status Check/Meter Ping, and On-Demand Read.</p>

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Product	Subproduct	Licensing Information
	Oracle Utilities Smart Grid Gateway Adapter for Itron OpenWay	<p>Provides productized smart meter integration to the Itron OpenWay head-end system, and converts usage and event data from the Itron OpenWay format into a unified data format for use by downstream applications such as Oracle Utilities Meter Data Management. Also provides a mechanism to regularly schedule requests of this data.</p> <p>Supported commands include Remote Connect, Remote Disconnect, Meter Commissioning, Meter Decommissioning, Device Status Check/Meter Ping, and On-Demand Read.</p>
	Oracle Utilities Service Order Management	<p>Provides orchestration of service orders that involve field work and/or smart meter commands through integration with customer information systems, mobile field work systems, and head-end systems. Supported types of service orders include:</p> <ul style="list-style-type: none"><li data-bbox="922 688 1224 714">• Enable / Disable Service</li><li data-bbox="922 735 1451 787">• Disconnect for Non-Payment / Reconnect for Payment</li><li data-bbox="922 808 1138 833">• Meter Exchange</li><li data-bbox="922 854 1192 879">• Move In / Move Out</li></ul>

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# License Restrictions Matrix

The Oracle Utilities meter solution products include functionality used by multiple Oracle Utilities products. Some of the functionality provided with the Oracle Utilities meter solution products is restricted, and can only be used if specific products have been licensed. The table below indicates the specific functional areas included with each of the listed products.

- “✓” indicates that the functional area is included with the product.
- “✓\*” indicates that the functional area is included with the product, but in order to use the functionality customers must license additional products. For example, a customer licensing Oracle Utilities Meter Data Management who wishes to use information lifecycle management must also license Information Lifecycle Management for Meter Data.
- “✗” indicates that the functional area is not included with the product.

In order to use functionality listed as “not included”, customers must license the product that includes the desired functionality. For example, a customer licensing Oracle Utilities Smart Grid Gateway who wishes to perform validation, editing, and estimations on incoming measurement data must also license Oracle Utilities Meter Data Management.

- “C” indicates that customers can develop custom implementations and interfaces to support this functionality. Note that use of any base package business objects (and related algorithms, business services, etc.) provided with the Oracle Utilities meter solution to support meter command functionality is prohibited unless the customer has also licensed Oracle Utilities Smart Grid Gateway.

Functionality	Oracle Utilities Meter Data Management	Oracle Utilities Smart Grid Gateway	Oracle Utilities Market Settlements Management	Oracle Utilities Analytics	Oracle Utilities Customer Self Service
Measurement and Service Data Model	✓	✓	✓	✗	✗
Validation and Editing Functionality	✓	✗	C	✗	✗
Estimation and Forecasting Functionality	✓	✗	✓	✗	✗
Measurement Services and Aggregations	✓	✗	✓	✗	✗
Consumer Level Usage and Bill Determinant Calculations	✓	✗	✗	✗	✗
Usage Calculations for Settlement and Wholesale Billing Processes	✗	✗	✓	✗	✗



Functionality	Oracle Utilities Meter Data Management	Oracle Utilities Smart Grid Gateway	Oracle Utilities Market Settlements Management	Oracle Utilities Analytics	Oracle Utilities Customer Self Service
Information Lifecycle Management for Meter Data	✓*	✓*	✓*	✗	✗
Analytics	✗	✗	✗	✓	✗
Customer Self Service	✗	✗	✗	✗	✓
Usage and Event Upload Statistics Processing	✗	✓	✗	✗	✗
Smart Meter Command Processing	C	✓	✗	✗	✗
Outage Integration	✗	✓	✗	✗	✗
Service Order Management	✗	✓*	✗	✗	✗
DataConnect	✓	✗	✗	✗	✗
Settlement Processes	✗	✗	✓	✗	✗
Wholesale Gas Operations	✗	✗	✓	✗	✗

## Functional Areas

The table below describes the functional areas provided with the Oracle Utilities meter solution products.

Functional Area	Description
Measurement and Service Data Model	The measurement and service data model contains database tables and related functionality used to define and store meters, devices, unmetered items, service points, and measurement data.
Validation and Editing Functionality	The engine that provides the core functionality used to perform validation and editing on usage data.
Estimation and Forecasting Functionality	Processes to estimate missing usage and forecast future energy use.
Measurement Services and Aggregation	Measurement services are used to process meter reading data and manipulate measurements to support billing or other downstream processes.
Consumer Level Usage and Bill Determinant Calculations	The usage engine and usage rules provide the core functionality used to perform usage calculations based on measurement data.

Functional Area	Description
Usage Calculations for Settlement and Wholesale Billing Processes	The usage engine and usage rules provide the core functionality used to perform settlement and wholesale billing calculations based on measurement data.
Information Lifecycle Management for Meter Data	<p>Oracle Utilities Information Lifecycle Management for Meter Data contains a set of processes to support Information Lifecycle Management (ILM) for a number of high volume transactional data objects. The processes identify eligible historical records to facilitate the migration of data to lower cost storage or archived database.</p> <p><b>Note:</b> Oracle Database Enterprise Edition and the Partitioning option are prerequisites for this option.</p> <p>Components provided with ILM including batch jobs, algorithms, and database columns are restricted and CANNOT be used to develop custom archiving processes.</p>
Analytics	Base package batch processes used to extract and load data for use in analytics applications such as Oracle Utilities Analytics.
Customer Self Service	Web services used to access data via the Oracle Utilities Customer Self Service application.
Usage and Event Upload Statistics Processing	Processing and compiling upload statistics related to upload of usage and device events.
Smart Meter Command Processing	<p>Executing smart meter commands and communicating with a head-end system for purposes of issuing commands such as remote connect, commission meter, etc.</p> <p><b>Note:</b> Customers who license Oracle Utilities Meter Data Management can build custom interfaces to AMI vendor head-end systems to support smart meter command processes. However, use of the command business objects (and related objects) included with the Oracle Utilities Service and Measurement Data Foundation without licensing Oracle Utilities Smart Grid Gateway is prohibited.</p>
Outage Integration	Communicating with Oracle Utilities Network Management System, including sending/receiving bulk ping commands, receiving device events from Oracle Utilities Smart Grid Gateway, and suppression of device event notifications (allowing a suppression activity to be configured for a meter or service point so that specified device event notifications will not be sent to Oracle Utilities Network Management System).
Service Order Management	Orchestration of service orders that involve field work and/or smart meter commands through integration with customer information systems, mobile field work systems, and head-end systems.
DataConnect	Components used to extract interval measurements data and master data for integration with external energy management systems.
Settlement Processes	Components used for settlement processes: schedules, unaccounted for energy (UFE) calculations, capacity calculations, procurement, and true up processes.
Wholesale Gas Operations	Components used for wholesale gas operations: nominations, bids, scheduling and transportation.

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Functional Area	Description
Forecasting Rules	Rules used to forecast future energy use.

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# Chapter 3

## Third Party Notices

### Open Source or Other Separately Licensed Software

Required notices for open source or other separately licensed software products or components distributed in this product are identified in the following table along with the applicable licensing information. Additional notices and/or licenses may be found in the included documentation or readme files of the individual third party software.

**Note:** A copy of each license appears in the Third-Party License chapter, unless otherwise noted.

Provider	Component	Version	License Information
Adam Shaw	FullCalendar	3.9.0	Copyright (c) 2015 Adam Shaw
Adriano Di Giovanni	cordova-plugin-shared-preferences	0.1.0	Copyright (c) 2017 Adriano Di Giovanni
ANTLR	ANTLR	4.5	Copyright (c) 2012 Terence Parr and Sam Harwell All rights reserved.
ANTLR	ANTLR	4.5.3	Copyright (c) 2012 Terence Parr and Sam Harwell All rights reserved.
ANTLR	ANTLR	4.7.2	Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.
ANTLR	Antlr.runtime	3.2	Copyright (c) 2012 Terence Parr and Sam Harwell All rights reserved.
Apache	Ant	1.10.5	Copyright © 1999-2018 The Apache Software Foundation Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <a href="http://www.apache.org/licenses/LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a> .
Apache	bsf.jar	2.4.0	
Apache	cglib	3.2.4	
Apache	commons-cli	1.3.1, 1.4	Copyright 2001-2017 The Apache Software Foundation
Apache	commons-codec	1.9	
Apache	commons-collections	3.2.2	

<b>Provider</b>	<b>Component</b>	<b>Version</b>	<b>License Information</b>
Apache	commons-Fileupload	1.3.3	Copyright 2001-2018 The Apache Software Foundation
Apache	commons-io	2.6	
Apache	commons-lang	2.2, 3.9	
Apache	commons-Logging	1.2	
Apache	Groovy	2.4.16	
Apache	HTTP Components Cache	4.1.2	
Apache	HTTP Components Mime	4.1.2	
Apache	HttpComponents Core	4.4.9	
Apache	HttpComponents HttpClient	4.5.5	
Apache	Log4j	2.11.0	
Apache	Velocity	1.7	
Apache	Xalan	2.7.2	
Apache	XMLBeans	3.0.1	
Apache Software Foundation	Apache Cordova	7.0.0	
Apache Software Foundation	commons Beanutils	1.9.3	
Apache Software Foundation	Cordova Android	6.4.0	
Apache Software Foundation	Cordova Camera Plugin	4.0.3	
Apache Software Foundation	Cordova Command Line Interface	8.0.0	
Apache Software Foundation	Cordova Device Plugin	2.0.2	
Apache Software Foundation	Cordova File Plugin	6.0.1	
Apache Software Foundation	Cordova File Transfer Plugin	1.7.1	

Provider	Component	Version	License Information
Apache Software Foundation	Cordova Geolocation Plugin	4.0.1	
Apache Software Foundation	Cordova inappbrowser plugin	3.0.0	
Apache Software Foundation	Cordova iOS	4.4.0	
Apache Software Foundation	Cordova Network Information Plugin	2.0.1	
Apache Software Foundation	Cordova WebSQL PlugIn	0.0.10	
Apache Software Foundation	Cordova Whitelist Plugin	1.0.0	
Apache Software Foundation	cordova-plugin-compat	1.1.0	
Brinley Ang	JSignature	2	Copyright (c) 2012 Willow Systems Corp <a href="http://willow-systems.com">http://willow-systems.com</a>
Castor Project	Castor	1.4.1	Copyright 2004-2005 Werner Guttmann  Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <a href="http://www.apache.org/licenses/LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a>
Chromium	Cordova Zip Plugin	3.1.0	
Codehaus	Jettison	1.3.8	Copyright 2006 Envoi Solutions LLC  Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <a href="http://www.apache.org/licenses/LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a>
Crypho AS	Cordova Plugin Pin Check	0.0.6	Copyright (c) 2015 Crypho AS
David Olson	Timezone Data 2010j	2010j	
FasterXML, LLC	jackson-annotations	2.9.9	Copyright (c) 2019- Tatu Saloranta, <a href="mailto:tatu.saloranta@iki.fi">tatu.saloranta@iki.fi</a>

Provider	Component	Version	License Information
FasterXML, LLC	jackson-core	2.9.9	Copyright © 2008–2019 FasterXML. All rights reserved.  This copy of Jackson JSON processor streaming parser/generator is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivative works.  You may obtain a copy of the License at <a href="http://www.apache.org/licenses/LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a>
FasterXML, LLC	jackson-databind	2.9.9.3	Copyright (c) 2019- Tatu Saloranta, tatu.saloranta@iki.fi
INRIA, France Telecom	ASM	v5.0.4, 7.1	Copyright (c) 2000-2011 INRIA, France Telecom All rights reserved.
Ionic	cordova-plugin-ios-keychain	3.0.1	Copyright (c) 2012 Shazron Abdullah
Joe Walnes	Qdox	1.12.1	Copyright (c) 2003-2006, Joe Walnes Copyright (c) 2006-2011, XStream Committers All rights reserved.
Joe Walnes	XStream	1.4.11.1	Copyright (c) 2003-2006, Joe Walnes Copyright (c) 2006-2015, XStream Committers All rights reserved.
John Resig	jQuery	2.1.0	Copyright (c) 2011 John Resig, <a href="http://jquery.com/">http://jquery.com/</a>
John Resig	jQuery	3.3.1	Copyright (c) 2011 John Resig, <a href="http://jquery.com/">http://jquery.com/</a>
jQuery	jQueryUI	1.12.1	Copyright (c) 2010 Paul Bakaus, <a href="http://jqueryui.com/">http://jqueryui.com/</a> .
jQuery	jQueryMobile	1.4.2	Copyright 2013 jQuery Foundation and other contributors <a href="http://jquery.com/">http://jquery.com/</a>
JS Foundation and other contributors	jQuery	3.4.1	Copyright JS Foundation and other contributors, Copyright © 2019 Kyle Simpson < <a href="mailto:getify@gmail.com">getify@gmail.com</a> >
Marijn Haverbeke	CodeMirror	5.41.0	Copyright (C) 2017 by Marijn Haverbeke < <a href="mailto:marijnh@gmail.com">marijnh@gmail.com</a> > and others
MetaStuff, Ltd.	Dom4j	1.6.1 2.1.1	Copyright 2001-2005 (C) MetaStuff, Ltd. All Rights Reserved. Copyright 2001-2016 (C) MetaStuff, Ltd. All Rights Reserved.
Niklas Merz	Cordova Plugin Fingerprint aio	1.7.0	Copyright (c) 2016-2018 Niklas Merz
Opensource	Cordova App-Event Plugin	1.2.1	
Opensource	Cordova BackgroundFetch	5.3.0	
Opensource	Cordova Local Notification Plugin	0.8.5	

Provider	Component	Version	License Information
Opensource	Cordova SQLite storage adapter	2.3.3	
Opensource	Cordova Websocket PlugIn (KNOWLEDGECODE)	0.12.2	
PhoneGap	Cordova Plugin for Barcode Scanner	8.0.0	
Pradeep Singh	cordova-plugin-secure-key-store	1.5.6	Copyright (c) 2017 Pradeep Singh
Quality Open Software	Simple Logging Façade for Java (SLF4J)	1.7.26	Copyright (c) 2004-2017 QOS.ch All rights reserved.  Refer to <a href="http://www.slf4j.org/license.html">http://www.slf4j.org/license.html</a> .
Red Hat	jboss-logging	3.3.0. FINAL	
Sebastián Katzer	Cordova BackgroundMode PlugIn	0.7.2	
Steven Sanderson	Knockout Mapping	2.4.1	Copyright (c) Steven Sanderson, Roy Jacobs
Steven Sanderson	Knockout.js	3.4.2	Copyright (c) Steven Sanderson, Roy Jacobs
SmartBear Software	swagger-ui	3.18.1	Copyright (c) 2016 SmartBear Software
Tatu Saloranta	StaxMate	2.0.1	Copyright (c) 2007, Tatu Saloranta All rights reserved..
Terence Parr	ANTLR	2.7.7	Copyright (c) 2005-2009 Terence Parr All rights reserved. BSD License: <a href="http://opensource.org/licenses/BSD-3-Clause">http://opensource.org/licenses/BSD-3-Clause</a> .
Terence Parr	Antlr.runtime	3.2	Copyright (c) 2005-2009 Terence Parr All rights reserved. BSD License: <a href="http://opensource.org/licenses/BSD-3-Clause">http://opensource.org/licenses/BSD-3-Clause</a> .
Terracotta, Inc.	Ehcache	2.5.2	Copyright 2001-2004 The Apache Software Foundation. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <a href="http://www.apache.org/licenses/LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a> .
The Joda Product (Joda.org)	joda-time	2.9.6	Copyright 2001-2004 The Apache Software Foundation. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <a href="http://www.apache.org/licenses/LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a>
The Werken Company	Jaxen	1.2.0	Copyright 2003-2006 The Werken Company. All Rights Reserved.



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<b>Provider</b>	<b>Component</b>	<b>Version</b>	<b>License Information</b>
Tim Wood	Moment.js	2.21.0	Copyright (c) 2011-2013 Tim Wood, Iskren Chernev, Moment.js contributors
Unicode, Inc.	ICU	63.1	Copyright © 1991-2018 Unicode, Inc. All rights reserved.
The Unicode Consortium	ICU4J	64.2	Copyright © 1991-2019 Unicode, Inc. All rights reserved.
XmlPull Project (xmlpull.org)	Xmlpull	1.1.3.1	Initial authors:  Stefan Haustein Aleksander Slominski  2001-12-12

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# Chapter 4

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## Third Party Notices and Licenses

This section provides license and copyright information for the associated products. This includes the following:

- [Notice Concerning Usage of ANTLR](#)
- [Notice Concerning Usage of Apache Software](#)
- [Notice Concerning Usage of ASM](#)
- [Notice Concerning Usage of CodeMirror](#)
- [Notice Concerning Usage of Concurrent](#)
- [Notice Concerning Usage of Cordova Plugin Pin Check](#)
- [Notice of Usage of Cordova Plugin Shared Preferences](#)
- [Notice of Usage of Cordova Plugin Secure Keystore](#)
- [Notice of Usage of Cordova Plugin Fingerprint aio](#)
- [Notice Concerning Usage of DOM4J](#)
- [Notice Concerning Usage of FullCalendar](#)
- [Notice Concerning Usage of ICU and ICU4J](#)
- [Notice Concerning Usage of Jaxen](#)
- [Notice Concerning Usage of JQuery \(2.1.0, 3.3.1\)](#)
- [Notice Concerning Usage of JQuery \(3.4.1\)](#)
- [Notice Concerning Usage of JQueryMobile](#)
- [Notice Concerning Usage of JQuery UI](#)
- [Notice Concerning Usage of JSignature](#)
- [Notice Concerning Usage of Knockout](#)
- [Notice Concerning Usage of Microsoft .NET](#)
- [Notice Concerning Usage of Moment.js](#)
- [Notice Concerning Usage of SLF4J](#)
- [Notice Concerning Usage of Staxmate](#)
- [Notice Concerning Usage of XMLPULL](#)
- [Notice Concerning Usage of XStream](#)

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## Third-Party Products

The following sections provide notices and information about the third party products indicated.

### Notice Concerning Usage of ANTLR

[The BSD License]

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marked - a markdown parser

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<https://github.com/chjj/marked>

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swagger-ui.js

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