



# WIDEVINE

---

## OEMCrypto Version Compatibility

Last Updated: January 17, 2020

Version	Date	Major New Features
v1-v8	2013	<ul style="list-style-type: none"> <li>• Earlier versions are for Widevine Classic.</li> <li>• Version 8 is first Modular DRM compatible API</li> <li>• Includes support for DRM Certificates.</li> <li>• At least 8 open sessions required.</li> </ul>
v9	2/25/2014	<ul style="list-style-type: none"> <li>• Initial support for usage tables which are required for offline licenses and secure stops.</li> </ul>
v10	3/9/2015	<ul style="list-style-type: none"> <li>• Improvements to feature reporting and testing.</li> <li>• 4 keys / session required</li> </ul>
v10.1	3/27/2015	<ul style="list-style-type: none"> <li>• documentation and LoadTestRSAKey.</li> </ul>
v10.2	4/21/2015	<ul style="list-style-type: none"> <li>• document keybox layout</li> </ul>
v10.3	9/23/2015	<ul style="list-style-type: none"> <li>• document HDCP 2.2 requirements.</li> </ul>
v11	10/31/2015	<ul style="list-style-type: none"> <li>• Pattern encryption to support CENC 3.0.</li> <li>• 20 keys / session required</li> </ul>
v11.1	4/4/2016	<ul style="list-style-type: none"> <li>• Specify buffer size requirements.</li> </ul>
v11.2	5/16/2016	<ul style="list-style-type: none"> <li>• Update offset values in DecryptCENC.</li> </ul>
v12	11/28/2016	<ul style="list-style-type: none"> <li>• Initial support for Provisioning 3.0 (i.e. using an OEM Certificate as root of trust instead of a keybox).</li> <li>• At least 10 open sessions required.</li> </ul>
v13	1/19/2017	<ul style="list-style-type: none"> <li>• Larger usage tables.</li> <li>• Analog output restrictions in key control block.</li> <li>• Support for HDCP SRM update.</li> </ul>
v13.1	1/31/2017	<ul style="list-style-type: none"> <li>• Recent decrypt prevents usage report.</li> </ul>

v13.2	5/16/2017	<ul style="list-style-type: none"> <li>• Update key control block verification field.</li> </ul>
v14	Dec 2017	<ul style="list-style-type: none"> <li>• Support for Entitlement Licenses.</li> <li>• Reporting analog restrictions.</li> <li>• Cipher mode set when key selected, not when key loaded.</li> </ul>
v14.1	5/16/2018	<ul style="list-style-type: none"> <li>• Correct PST Report structure in docs.</li> </ul>
v15	10/15/2018	<ul style="list-style-type: none"> <li>• Resource Ratings (includes session and key requirements)</li> <li>• Full decrypt path testing</li> <li>• VM and Sandbox support</li> </ul>
15.1	1/30/2019	<ul style="list-style-type: none"> <li>• modifications to Full Decrypt Path Testing</li> </ul>
15.2	4/29/2019	<ul style="list-style-type: none"> <li>• Updates to HDCP 2.3 and resource ratiu</li> </ul>
16	9/12/2019	<ul style="list-style-type: none"> <li>• ODK Library, Core Messages,</li> <li>• Combined Decrypt calls -- performance improvements needed for AV1</li> </ul>
16.1	12/9/2019	<ul style="list-style-type: none"> <li>• ODK Library + Core Messages updates</li> </ul>
16.2	12/31/2019	<ul style="list-style-type: none"> <li>• ODK Library Updates (renewal message and timer updates)</li> </ul>

© 2019 Google, Inc. All Rights Reserved. No express or implied warranties are provided for herein. All specifications are subject to change and any expected future products, features or functionality will be provided on an if and when available basis. Note that the descriptions of Google's patents and other intellectual property herein are intended to provide illustrative, non-exhaustive examples of some of the areas to which the patents and applications are currently believed to pertain, and is not intended for use in a legal proceeding to interpret or limit the scope or meaning of the patents or their claims, or indicate that a Google patent claim(s) is materially required to perform or implement any of the listed items.

## Android Mobile

Android OS	Release Date	OEMCrypto Version	New Device <sup>1</sup>	Device Upgrade <sup>2</sup>
Android 11.0 R	TBD	OEMCrypto v16.2	OEMCrypto v16.2	OEMCrypto v15
Android 10.0 Q	September 2019	OEMCrypto v15	OEMCrypto v15	OEMCrypto v15
Android 9.0 P	August 2018	OEMCrypto v14	OEMCrypto v14	OEMCrypto v13 OEMCrypto v14
Android 8.1 Oreo	December 2017	OEMCrypto v13	OEMCrypto v13	OEMCrypto v11
Android 8.0 Oreo	August 2017	OEMCrypto v11	OEMCrypto v11 (v12 or v13 supported but not recommended due to potential issues)	OEMCrypto v11
Android 7.0 Nougat	August 2016	OEMCrypto v11	OEMCrypto v11	OEMCrypto v11
Android 6.0 Marshmallow	October 2015	OEMCrypto v10	OEMCrypto v10	OEMCrypto v10
Android 5.0 Lollipop	November 2014	OEMCrypto v9	OEMCrypto v9	OEMCrypto v9
Android 4.4 KitKat	October 2013	OEMCrypto v8	OEMCrypto v8	OEMCrypto v8
Android 4.3 Jelly Bean MR2	July 2013	OEMCrypto v8	OEMCrypto v8	OEMCrypto v8

1 - refers to a new device integration for the specified Android OS version.

2 - refers to a device OS upgrade to the specified Android OS version.

## Android TV

Android OS	Release Date	OEMCrypto Version	New Device <sup>1</sup>	Device Upgrade <sup>2</sup>
Android 11.0 R	TBD	OEMCrypto v16.2	OEMCrypto v16.2	OEMCrypto v16.2
Android 10.0 Q	December 2019	OEMCrypto v15	OEMCrypto v15	OEMCrypto v15
Android 9.0 P	August 2018	OEMCrypto v14	OEMCrypto v14	OEMCrypto v14
Android 8.1 Oreo	December 2017	OEMCrypto v13	OEMCrypto v13	OEMCrypto v11
Android 8.0 Oreo	August 2017	OEMCrypto v11	OEMCrypto v11 (v12 or v13 supported but not recommended due to known issues)	OEMCrypto v11
Android 7.0 Nougat	August 2016	OEMCrypto v11	OEMCrypto v11	OEMCrypto v11
Android 6.0 Marshmallow	October 2015	OEMCrypto v10	OEMCrypto v10	OEMCrypto v10
Android 5.0 Lollipop	November 2014	OEMCrypto v9	OEMCrypto v9	OEMCrypto v9

1 - refers to a new device integration for the specified Android OS version.

2 - refers to a device OS upgrade to the specified Android OS version.

## CDM Source (ce\_cdm)

Source releases are on an annual release schedule with quarterly minor updates or bug fixes.

CE CDM Version	Recommended OEMCrypto Version	Minimum OEMCrypto Version	Status <sup>1</sup>
16.2.0	v16.2	v16.2	Supported
15.x.x	v15	v15	Supported
14.x.x	v14	v14	Supported
3.5.x	v13	v10	Not Supported
3.4.x	v12	v10	Not Supported
3.3.x	v11	v10	Not Supported
3.0.0	v10	v10	Not Supported
2.2.x	v8	v8	Not Supported

1 - refers to official Widevine support (development, testing and validation).

## Cobalt (First party platforms)

Cobalt Version	CE CDM Version	YouTube Living Room Specification (Year)	Status <sup>1</sup>
	15.x	2020	Supported
20	14.x	2020	Supported
19	14.x	2019	Supported
11	3.5.x	2018	Supported
9	2.5.x	2017	Supported

1 - refers to official Widevine support (development, testing and validation).