

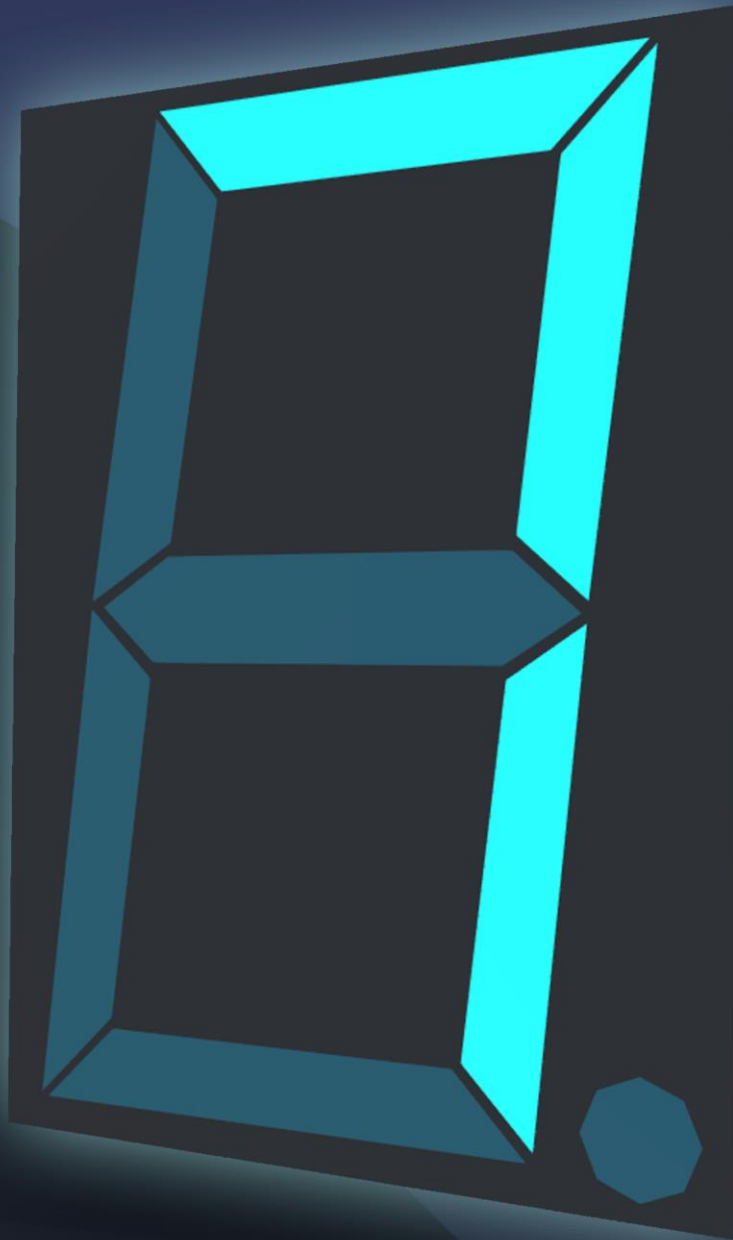


Oclanay™ LED Display Series

For Unity Engine 5.6+ or 2017.3+

Version 1.0.0 | May 2018

CYB CHEBRYNHITTE



Basic Seven Segment Display

Reference Manual

2018 Year of Caladradanathar

© Cyberconian Technologies 1992-2018. All Rights Reserved.

CONTENTS OF MANUAL

Foreword & Welcome	I
Intended Audience	II
Installation	II
Removal	II
Product Installation Verification	II
Updating to Later Versions	II
Running, Deploying and Viewing	III
Performance Considerations	III
Display Properties	IV
Theming & Appearance	V
Extending Functionality	V
API Reference	V
Textures	VI
Scripted Interfaces	VI
Building & Packaging	VI
Binary Format	VII
Oclanay™ Digital Products - End User License Agreement (EULA)	X

FOREWORD & WELCOME

I bring warm greetings to you from City of Sydney in the Commonwealth of Australia. Again in 2018, I am proud to deliver another quality product on behalf of all indie and professional developers alike of virtual reality.

With so much choice available among so many assets imaginable, and even with segmented display LEDs and the like, my purpose is not to make head-to-head competition, but to augment the competition, by alongside comparable products to bring flexibility and alternatives to your projects.

We all know that finding a one-size fits all solution cannot cover all facets of your needs at any one time, and that several global solutions are sometimes needed to bring a world to completion. Sometimes using a similar product for mobiles vs desktops is needed, and this product is no exception. There are several product alternatives on the market which I encourage you to review from other suppliers and authors. Certainly, I am proud to follow my personal passion in providing you with further alternatives to satisfy the various needs of your project.

I welcome you to our forums to leave feedback. I do not know everything in this deep world of VR, and wish to never do so, but to grow and learn from the wonderful community and our valued customers alike. Quality is an ongoing journey, and knowing it all would mean it comes to an unexpected end, something which I promise not to let happen.

I hope that this free and basic seven segment display unit will find its way into many of your projects, driving appliances or counters, score boards or watches, and that it may appear alongside your future AAA titled games!

Once again, I wish you good speed and development with this Segmented Display Unit, and I welcome you aboard our product suites. Thank you and welcome.

Kindest Regards,

A handwritten signature in dark ink, appearing to be 'SK' or similar, written in a cursive style.

Christian Kanakis
V | Caladradanathar

INTENDED AUDIENCE

It is assumed that the user has basic exposure and a familiar understanding with the Unity Engine software platform prior to using this product. Programming experience is not required to use the displays.

INSTALLATION

Unpack the the unitypackage into your project. It will create an Oclanay/BasicSevenSegmentDisplay folder which contains the product.

REMOVAL

Delete the Oclanay **BasicSevenSegmentDisplay** folder inside the Content folder under the Oclanay folder. If you do not have any other Oclanay products residing under this folder, you may delete the Oclanay folder as well.

PRODUCT INSTALLATION VERIFICATION

Navigate to the Oclanay/BasicSevenSegmentDisplay/Scenes folder and load the **Demo** scene. After pressing PLAY, you should see a pair of LEDs changing every second between random numbers. Decimals are randomly activated as well.

UPDATING TO LATER VERSIONS

If you are installing a later version of the product from a unitypackage archive, you may overwrite a pre-existing version already installed for your project. Please be aware that any changes you have made to the product will be lost, unless the Oclanay/BasicSevenSegmentDisplay folder is backed up first.

SECTION 1: DISPLAY SUMMARY

RUNNING, DEPLOYING AND VIEWING

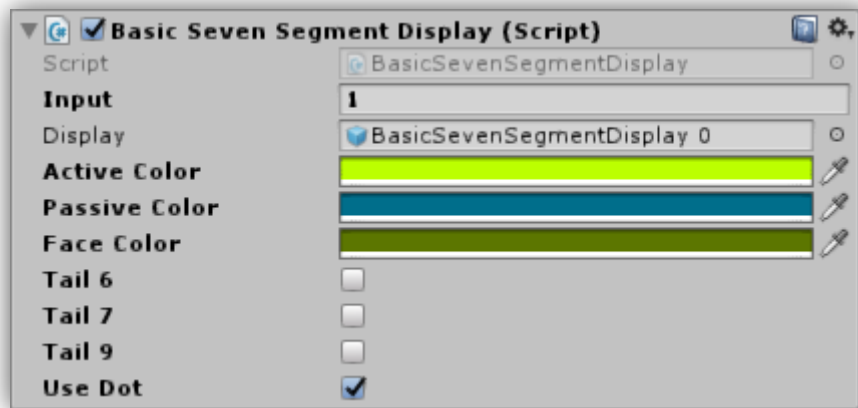
After the relevant actors have been placed in the scene and configured as needed, the Play button can be pressed to preview the devices in operation. The Demo scene can be used to test drive the product.

PERFORMANCE CONSIDERATIONS

The device consumes little in the way of resources. Chief among Oclanay™ products are optimisations that may be enabled as required to improve your scenes performance should the need arise. There are no optimisations available for this particular product. Given the simplicity of this device, there are not any expectations that this device used in large numbers will have a significant performance impact.

SECTION 2: DISPLAY DETAILS

DISPLAY PROPERTIES



Simply drag a BasicSevenSegmentDisplay prefab found in the *Oclanay/BasicSevenSegmentDisplay/Prefabs* folder onto the active viewport in the editor and press F to focus on it. You should see a blank display. The instantiated game object will have the default settings as per table below.

Feature	Default Setting	Description
Input	Blank	The figure to show on the display. Note: The mapping may be changed in the BasicSevenSegmentDisplay.cs script under the Convert() method. Limited C# experience is needed to adjust the mapping.
Display	Default	The display
Active Color	White	The active and emissive color of the LED.
Passive Color	Dark Grey	The inactive and non-emissive color of the LED.
Face Color	Black	The surrounding color of the display panel/face.
Tail 6	Unchecked	Whether to show the tail of the 6 figure.
Tail 7	Unchecked	Whether to show the tail of the 7 figure.
Tail 9	Unchecked	Whether to show the tail of the 9 figure.
Use Dot	Unchecked	Whether to use the decimal point or otherwise.

THEMING & APPEARANCE

Using a popular 3D editor such as Blender, you can modify the shape and style of the LEDs, Face and Decimal Point. This product does not offer any pre-made schemes of any themes, but the simplistic nature of the displays makes it easy to adapt to a variety of segment shapes and styles.

EXTENDING FUNCTIONALITY

The BasicSevenSegmentDisplay class may be extended to introduce additional functionality that the basic display might not cover. Simply extend a C# class from the BasicSegmentDisplay class and add additional methods and fields as required. Select methods may be overridden as needed. Please refer to the API Reference for further details on the methods that can be overridden.

API REFERENCE

The following API Table may be used in by any game object to allow your scene elements to engage with the LED units you are using in your scene.

Method Name	Signature	Description
Set Data	void SetData(int number), void SetData(char character)	Sets the display character based on either a number or character entered as an argument to the method. The figure will show itself on the next frame update.
Set Dot	void SetDot(bool usedot)	Sets the dot on or off if the Boolean value is true or false respectively. The dot will change on the next frame update.
Convert*	int Convert(char character, bool tail6, bool tail7, bool9)	Converts a character into a binary value represented as a decimal number. Please refer to the <i>Binary Format</i> topic on a more detailed explanation of the binary code format as a decimal number using a character input as a source figure. This method can be overridden in derivative classes.
Clear Display	void ClearDisplay()	Clears the display and the dot – all segments including the dot are switched off. The effect will come through on the next frame update.
Set Passive LED Color	void SetPassiveLEDColour(Color color)	Sets the color of the switched off LED. The color is not emissive.
Set Active LED Color	void SetActiveLEDColour(Color color)	Sets the color of the switched on LED. The color is emissive.
Set Face Color	void SetFaceColor(Color color)	Sets the color of the display panel (or face) of the display.
Render Display*	void RenderDisplay(Char character)	Renders the material across all LEDs and the dot polygons in accordance with the <code>_Input</code> state after conversion to its binary representation. This method can be overridden in derivative classes.

* Protected virtual methods – documented for reference.

SECTION 3: ADVANCED FEATURES

TEXTURES

There are no textures with this product, but there are two materials: one for the face and the other for the LED. The latter represents the on and off states of all segments including the dot. The latter is controlled by the `RenderDisplay()` method where the emissive or otherwise rendering state of the material is adjusted accordingly.

Oclanay™ will not provide support for texture modifications or any PSD source files. Modifications to the textures are done at the operator's risk. However, this reference manual can provide a guide as to how the textures may be modified to suit your needs. It is recommended that Adobe® Photoshop™ be used when modifying the textures. Please backup the textures before altering the originals.

SCRIPTED INTERFACES

This product does not support interfaces in its operating architecture at time of publication (v1.0.0). However, the `BasicSevenSegmentDisplay` class may be extended by custom C# code if additional functionality is required for your projects.

BUILDING & PACKAGING

Your project may be built with the Display installed within your project. Oclanay™ cannot provide any support around the building and packaging process. Please be advised that any third-party plugins you have may prevent building from working, particularly if they are written in unmanaged C++ code for specific platforms.

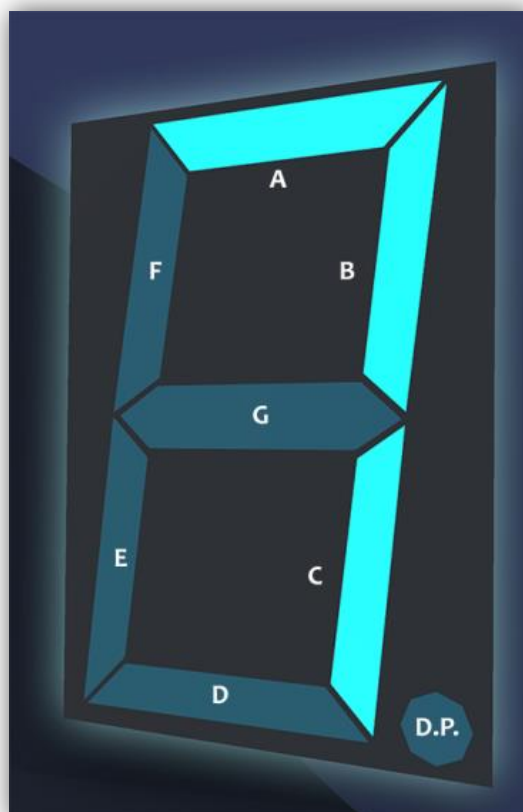
As this product is not a plugin, Oclanay™ does not expect that there will be any issues around building your project. The build testing assumes your project only has this product installed on its own as a test reference. Oclanay™ cannot imply nor make any representation as to the guarantee that this will work for your project.

This product should compile in the Unity Editor for most popular target platforms. It has been tested to compile for Android (Android SDK versions 21 and over), HTML 5 based web browsers, and for Windows x64 at time of release of version 2017.3 and 5.6.2.

BINARY FORMAT

The Convert function takes a character and converts it to a decimal number. The decimal number controls the figure but not the decimal point.

The pattern of the number in binary corresponds to a segment. The number returned by the Convert function expresses how the LED will be lit. Each LED is assigned a letter from a to g. The diagram below illustrates this.



The binary pattern of any returned number is arranged in such a way that the least significant or right most bit represents the 'a' segment. The second right most bit represents the 'b' segment and so on until the middle segment denoted 'g' represents the left most or most significant bit. If the bit is a zero, the LED is switched off. If the bit is a one, the LED is switched on. The bit can only assume two values 0 and 1 and no other.

Please visit www.oclanay.com and proceed to the tools menu to view a variety of aides that will assist you in authoring your own character-to-binary mapping. To make the mapping possible, you will need MonoDevelop or Visual Studio installed so that compilation can be performed in Unity. You will need to modify the mapping in the Convert function to effectuate custom mappings.

An example: The number 5 is represented as 1101101 which is decimal 109. The last figure '1' represents the 'a' LED whilst the first figure '1' represents the G led. The D.P (Decimal Point) is controlled separately through the property inspector.

FAQ

1. Will this work in 2D mode?

Yes, the device is effectively planar, so it will render reasonably well in 2D space. Please bear in mind the product is primarily designed for a 3D environment. It does not use any Unity UI technology nor object code, though it might be useable in the context of a UI system based on user experimentation.

2. Will this product work on mobile devices?

Yes, the scenes containing the devices should work on a broad range of desktop and mobile devices. Please visit www.oclanay.com for further details.

3. How much support entitlement is available?

Typically, this is limited to 1 hour for technical support or the reporting and resolution of product defects per customer.

4. Can the Display be driven by an external data source, API, web service or third-party system?

Yes, any documented exposed inputs via the BasicSevenSegmentDisplay class written in C# may be used to drive the display. Feeds from web services for instance could be used to populate the display if the product is used in say, real-time timing applications or other similar functions.

5. Will this product work over a network game or networked environment?

If the project or game using the product is designed to be played in multiplayer mode, the product should work over the networked environment without issue. Oclanay™ cannot provide support for networking issues encountered when using this product.

6. How much system resources will a set of signs consume?

Very little system resources are consumed. The assets included in this product are appropriately sized, scaled and trimmed. The geometry is highly simplified.

7. Can this product be used in games, media, or movies when using the advertisement engagement capabilities for making revenue?

Yes, this item is completely free and may be used for person or commercial use, with or without profit. Please contact support@oclanay.com for further details.

SUPPORT AND CONTACT INFORMATION

Core product and community support can be found on the **Oclanay™** website and forums at <https://www.oclanay.com> and <https://support.oclanay.com> respectively. Sign up is free and support staff can provide you feedback within 48 hours of posting questions. Customers are invited to openly share and exchange ideas and feedback with **Oclanay™** and other developers and customers for product operation. You can also view the known issues thread at <https://support.oclanay.com> under the relevant title on the support forum.

Support tickets can be raised for technical issues, but cannot answer questions about integrating projects with the displays and use cases similar thereof. Bugs and other defects are welcomed feedback which we encourage reporting. We will endeavour to prioritise critical and high priority fixes as necessary.

Sales questions or ancillary information about this product may be emailed to support@oclanay.com. Telephone, video support and live chat are not available.

LEGAL & EULA

OCLANAY™ DIGITAL PRODUCTS - END USER LICENSE AGREEMENT (EULA)

PLEASE READ CAREFULLY BEFORE USING THIS PRODUCT: This End-User License Agreement ("EULA") is a legal agreement between (a) you (either an individual or a single entity) and (b) Storage Appliance Corporation ("OCLANAY") that governs your use of any Software Product, installed on or made available by OCLANAY.

BY ADDING THIS PRODUCT TO AN UNITY™ 2017.3 or 5.6+ PLATFORM PROJECT, OR BY TAKING ANY STEP TO INSTALL OR USE THE SOFTWARE PRODUCT, YOU (1) REPRESENT THAT YOU ARE OF THE LEGAL AGE OF MAJORITY IN YOUR STATE, PROVINCE JURISDICTION OF RESIDENCE AND, IF APPLICABLE, YOU ARE DULY AUTHORIZED BY YOUR EMPLOYER TO ENTER INTO THIS CONTRACT AND (2) YOU AGREE TO BE BOUND BY THE TERMS OF THIS EULA. IF YOU DO NOT ACCEPT THE EULA TERMS, DO NOT USE THE SOFTWARE PRODUCT OR ADD IT TO ANY UNITY™ 2017.3 or 5.6+ PLATFORM PROJECT.

1. **GRANT OF LICENSE.** The Software Product includes two types of computer software (1) software that is owned by OCLANAY (and may include associated media, and "online" or electronic documentation) (collectively the "Software Product") and (2) other software provided by third parties and used with the Software Product ("Third Party Software"). OCLANAY grants you the following non-exclusive rights provided you agree to and comply with all terms and conditions of this EULA:
 - a. **Use.** You may use the Software Product on your computer (or computers if the Software Product is sold to you for use on multiple computers). You may not use the Software Product on additional computers and do not have the right to distribute the Software Product. You agree to only use the Software Product as expressly permitted herein.
 - b. **Reservation of Rights.** The Software Product is licensed, not sold, to you by OCLANAY. OCLANAY and its suppliers own all right, title and interest in and to the Software Product and reserve all rights not expressly granted to you in this EULA. You agree to refrain from any action that would diminish such rights or would call them into question.
 - c. **Third Party Software.** Notwithstanding the terms and conditions of this EULA, all or any portion of the Software Product which constitutes Third Party Software, is licensed to you subject to the terms and conditions of the software license agreement accompanying such Third Party Software whether in the form of a discrete agreement, shrink wrap license or electronic license terms accepted at time of download. Use of the Third Party Software by you shall be governed entirely by the terms and conditions of such license.
 - d. **Support.** Technical support for the Software Product will be free for the first thirty (30) days after the activation date. Support will be available via e-mail or online chat during regular business hours EST. After 30 days, Technical Support may be offered by OCLANAY as a paid support service.
2. **UPGRADES.** To use a Software Product identified by OCLANAY as an upgrade, you must first be licensed for the original Software Product identified by OCLANAY as eligible for the upgrade. After upgrading, you may no longer use the original Software Product that formed the basis for your upgrade eligibility and the upgraded software shall be deemed the "Software Product".
3. **ADDITIONAL SOFTWARE.** This EULA applies to updates or supplements to the original Software Product provided by OCLANAY unless OCLANAY provides other terms along with the update or supplement. In case of a conflict between such terms, the other terms will prevail.
4. **TRANSFER.**
 - a. **Third Party.** The Software Product may only be transferred to another end user as part of a transfer of the computer(s) on which it is installed. Any transfer must include all component parts, media, printed materials and this EULA. Prior to the transfer, the end user receiving the transferred product must agree to all the EULA terms. Upon transfer of your

- computer(s), your license is automatically terminated and you are no longer permitted to use the Software Product.
- b. **Restrictions.** You may not rent, lease or lend the Software Product or use the Software Product for commercial timesharing or bureau use. You may not sublicense, assign or transfer the license or Software Product except as expressly provided in this EULA.
 5. **PROPRIETARY RIGHTS.** All intellectual property rights in the Software Product and user documentation are owned by OCLANAY or its suppliers and are protected by law, including but not limited to copyright, trade secret, and trademark law, as well as other applicable laws and international treaty provisions. The structure, organization and code of the Software Product are the valuable trade secrets and confidential information of OCLANAY and its suppliers. You shall not remove any product identification, copyright notices or proprietary restrictions from the Software Product.
 6. **LIMITATION ON REVERSE ENGINEERING.** Except to the extent that such restriction is not permitted under applicable law, you are not permitted (and you agree not to) reverse engineer, decompile, disassemble or create derivative works of or modify the Software Product. Nothing contained herein shall be construed, expressly or implicitly, as transferring any right, license or title to you other than those explicitly granted under this EULA. OCLANAY reserves all rights in its intellectual property rights not expressly agreed to herein. Unauthorized copying of the Software Product or failure to comply with the restrictions in this EULA (or other breach of the license herein) will result in automatic termination of this Agreement and you agree that it will constitute immediate, irreparable harm to OCLANAY for which monetary damages would be an inadequate remedy, and that injunctive relief will be an appropriate remedy for such breach.
 7. **TERM.** This EULA is effective unless terminated or rejected. This EULA will also terminate immediately and without additional notice in the event you breach this EULA and/or fail to comply with any term or condition of this EULA.
 8. **CONSENT TO USE OF DATA.** You agree that OCLANAY and its affiliates or suppliers may collect and use statistics on your use of the Software Product in performing backup operations and technical information you provide in relation to support services related to the Software Product. OCLANAY and its suppliers agree not to use this information in a form that personally identifies you except to the extent necessary to provide such services.
 9. **DISCLAIMER OF WARRANTIES.**
 - a. You acknowledge that the Software Product is for backup and redundancy only, and should not be used as a sole or primary source of storage. YOU AGREE THAT THE USE OF THE SOFTWARE PRODUCT IS AT YOUR SOLE RISK AS TO SATISFACTORY QUALITY PERFORMANCE, ACCURACY AND EFFORT. Use of the Software Product may adversely affect the operation of other software and devices. To the maximum extent permitted under applicable law, the Software Product is offered on an "AS-IS" basis and OCLANAY does NOT warrant that the functions contained in the Software Product will meet your requirements or that the operation of the Software Product will be uninterrupted or error free or that such errors will be corrected. Computer software is inherently subject to bugs and potential incompatibility with other computer software and hardware. You should not use the Software Product for any applications in which failure could cause any significant damage or injury to persons or tangible or intangible property.
 - b. EXCEPT AS MAY BE SET OUT IN A SPECIFIC WARRANTY ACCOMPANYING THE SOFTWARE PRODUCT, TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, OCLANAY AND ITS SUPPLIERS PROVIDE THE SOFTWARE PRODUCT AND THIRD PARTY SOFTWARE "AS IS" AND WITH ALL FAULTS AND WITHOUT ANY OTHER WARRANTY OF ANY KIND, AND HEREBY DISCLAIM ALL OTHER WARRANTIES AND CONDITIONS, EITHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF TITLE AND NON-INFRINGEMENT, ANY IMPLIED WARRANTIES, DUTIES OR CONDITIONS OF MERCHANTABILITY, OF FITNESS FOR A PARTICULAR PURPOSE, AND OF LACK OF VIRUSES ALL WITH REGARD TO THE SOFTWARE PRODUCT AND THIRD PARTY SOFTWARE. NO ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY OCLANAY OR A CYBERCONIAN | OCLANAY AUTHORIZED REPRESENTATIVE SHALL CREATE A WARRANTY. Some states/jurisdictions do not allow exclusion of implied warranties or limitations on the duration of implied warranties, so the

above disclaimer may not apply to you in its entirety. To the extent applicable law requires OCLANAY to provide warranties, you agree that the scope and duration of such warranty shall be to the minimum extent permitted under such applicable law.

- c. IN NO EVENT DOES CYBERCONIAN TECHNOLOGIES PROVIDE ANY WARRANTY OR REPRESENTATIONS WITH RESPECT TO ANY THIRD PARTY HARDWARE OR SOFTWARE WITH WHICH THE SOFTWARE PRODUCT IS DESIGNED TO BE USED, AND OCLANAY DISCLAIMS ALL LIABILITY WITH RESPECT TO ANY FAILURES THEREOF.
10. **LIMITATION OF LIABILITY.** Notwithstanding any damages that you might incur, the entire liability of OCLANAY and any of its suppliers under any provision of this EULA and your exclusive remedy for all of the foregoing shall be limited to the amount actually paid by you for the Software Product. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL OCLANAY OR ITS SUPPLIERS BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES WHATSOEVER (INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFITS, FOR LOSS OF DATA OR OTHER INFORMATION, FOR BUSINESS INTERRUPTION, FOR PERSONAL INJURY, FOR LOSS OF PRIVACY ARISING OUT OF OR IN ANY WAY RELATED TO THE USE OF OR INABILITY TO USE THE SOFTWARE PRODUCT, THIRD PARTY SOFTWARE AND/OR THIRD PARTY HARDWARE USED WITH THE SOFTWARE PRODUCT, OR OTHERWISE IN CONNECTION WITH ANY PROVISION OF THIS EULA), EVEN IF OCLANAY OR ANY SUPPLIER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES AND EVEN IF THE REMEDY FAILS OF ITS ESSENTIAL PURPOSE. Some states/jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.
11. **INDEMNITY.** You agree to indemnify and hold OCLANAY and its officers, directors, employees and licensors harmless from any claim or demand (including but not limited to reasonable legal fees) made by a third party due to or arising out of or related to your violation of the terms and conditions of this Agreement, your violation of any laws, regulations or third party rights or your negligent act, omission or wilful misconduct.
12. **U.S. GOVERNMENT CUSTOMERS.** The Software Product is a "Commercial Item" as that term is defined in 48 C.F.R. 12.212 or 48 C.F.R. 227.7202, as applicable. Consistent with 48 C.F.R. 12.212 or 48 C.F.R. 227.7202, as applicable, Commercial Computer Software and Commercial Computer Software Documentation are licensed to the U.S. Government users (i) only as Commercial Items and (2) only with those rights granted to other users under this EULA. Unpublished rights are reserved under the copyrights of the United States.
13. **AUSTRALIAN GOVERNMENT CUSTOMERS.** The Software Product is a "Commercial Item" as that term is defined in Trade Practices Act 1974 (TPA) section X paragraph Y, as applicable. Consistent with TPA 1, as applicable, Commercial Computer Software and Commercial Computer Software Documentation are licensed to the Australian Government users (i) only as Commercial Items and (2) only with those rights granted to other users under this EULA. Unpublished rights are reserved under the copyrights of the Commonwealth of Australia.
14. **COMPLIANCE WITH LAWS.** You shall comply with all laws and regulations of the United States and other countries ("Export Laws") to ensure that the Software Product is not (1) exported, directly or indirectly, in violation of Export Laws, or (2) used for any purpose prohibited by Export Laws, including, without limitation, nuclear, chemical, or biological weapons proliferation. You further agree that you will not use the Software Product for any purpose prohibited under applicable law.
15. **APPLICABLE LAW.** This EULA is governed by the laws of the Province of Ontario exclusive of conflict of law provisions and you attorney to the jurisdiction of the courts of the province of Ontario with respect to any proceedings arising from this EULA. The parties hereby agree that this Agreement is not governed by the United Nations Convention on Contracts for the International Sale of Goods.
16. **ENTIRE AGREEMENT.** This EULA is the entire agreement between you and OCLANAY relating to the Software Product and it supersedes all prior or contemporaneous oral or written communications, proposals and representations with respect to the Software Product or any other subject matter covered by this EULA. To the extent the terms of any OCLANAY policies or programs for support services conflict with the terms of this EULA, the terms of this EULA shall control. In the event of a conflict between the English and any non-English versions of this EULA, the English version shall govern. If any provision of this EULA is held by a court of competent jurisdiction to be contrary to law, such provision will be changed and interpreted so as to best accomplish the objectives of the original

provision to the fullest extent allowed by law and the remaining provision of the EULA will remain in force and effect. Sections 5, 6, 9, 10, 11, 14 and 15 shall survive termination of this EULA.

The only warranties for Oclanay Products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. OCLANAY shall not be liable for technical or editorial errors or omissions contained herein. Portions of the Software Product include technology used under license.

© 2018 Cyberconian Technologies. All rights reserved. OCLANAY is a subsidiary of Cyberconian & Cyberconian Technologies in the Commonwealth of Australia.

Rev. 05/21 | Year of 2018 (Caladradanathar)