



## OOCI Working Group Rules

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# EMVA OOCI Working Group Rules

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## EMVA OOCI Working Group Rules

### History

Version	Date	Changed by	Change
0.1	07.03.2022	Werner Feith, EMVA	Initial draft from EMVA for OOCI based on GenlCam RC version

## 1 Introduction

This document describes the OOCI license and the specific collaboration rules within the OOCI standard working group. Note that this document is part of the “EMVA legal envelope” for the OOCI standard that comprises the following documents:

- EMVA Standards Development and Approval Procedures
- EMVA IPR<sup>1</sup> Policy
- EMVA IPR Committee Rules
- EMVA OOCI Working Group Application Form
- EMVA OOCI Working Group Rules (this document)

This document is based on the EMVA Standards Development and Approval Procedures and sets forth specific rules for the OOCI Working Group.

## 2 Overview

The goal of OOCI is to provide a standard interface for optical components inside of, or attached to, cameras, no matter what wire interface technology the cameras are built on. The optical components covered by OOCI are, but not limited to, lenses, filters, filter wheels, shutters, apertures.

### *OOCI Modules*

The OOCI standard consists of several modules according to the main tasks to be solved:

- **SFNC Extensions** (Standard Features Naming Convention): standardizes names, types, and behavior for the most common device features resulting in a plug&play-like interoperability between products from different vendors.
- **OOCI-IF**: standardizes the mechanical as electrical interface between e.g the camera and e.g the lense in the setup.
- **OOCI-Com**: is a reference software implementation based on GenICam compliant to operate the lens connected with the module **OOCI-IF**.

### *Software Implementation*

The OOCI working group also provides a **reference- as test-software-implementation** for the OOCI standards. These implementations are a collection of software modules which can be distributed in two ways: as **runtime version** or as **development version**, see Chapters 4 and 5 for more details about using and redistributing the **OOCI** software implementation.

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<sup>1</sup> IPR: Intellectual Property Rights

## EMVA OOCI Working Group Rules

The runtime as well as the development version may contain 3rd party modules which come with their own license. These licenses override the OOCI license.

Note that OOCI is a B2B industry standard which is mostly used by vendors “under the hood” to provide interoperability between their products. Because of this, the software implementation(s) does not contain any driver and thus cannot be used stand-alone to control OOCI equipment

### 3 Rules for Standard Compliancy

The standard documents are available for free to anybody. Users may download the latest version of the standard documents from the OOCI website at [www.ooci.eu](http://www.ooci.eu).

#### *OOCI Compliancy*

The term **OOCI compliant** is true for:

- OOCI equipment, which passed the OOCI test-software-implementation provided by the OOCI Working Group.
- Software libraries being able to access OOCI compliant devices.
- Products that create, transmit, receive, deliver or store GenDC containers as defined in the OOCI GenDC standard which meet the requirements given in the "List of Requirements and Objectives" and respect the related text in the GenDC specification.

#### *Certification and Logo*

In general, the OOCI compliancy is declared by self-certification. The OOCI working group can provide additional checklists or certification software that have to be used during the self-certification procedure. Vendors may use the OOCI logo(s) and use the name OOCI™ for advertising OOCI compliant products. In future, additional compliancy procedures may become mandatory for new devices such as validation test suites and/or obligations to participate at plug-fests.

## 4 Rules for Using the Runtime Version of the Reference Implementation

The runtime version of the OOCI software implementation(s) is available for free to anybody in binary format. Everyone may download the latest version from the OOCI website.

The runtime version is distributed under a **modified [BSD License](#)** (the term source code below refers to the header files delivered with the runtime version):

Copyright (c) 2022-<year>, <owner of the software module>  
All rights reserved.

Redistribution and use in source and binary forms, without<sup>2</sup> modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the OOCI standard group nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

In contrast to the BSD License the user **must not modify** the software except the installation procedure, see Chapter 5 for more details. This is to make sure only properly tested and released OOCI versions are used in the machine vision community and the support effort is restricted.

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<sup>2</sup> The original BSD License reads here “with or without modification”.

## 5 Rules for Using the Development Version of the Reference Implementation

In order to get access to the development version of the OOCI software implementation(s) a company must become OOCI Working Group member. Application requires the completion and submission of the EMVA OOCI Working Group Application Form which can be found on [www.ooci.eu](http://www.ooci.eu).

OOCI Working Group members get, inter alia, the following **benefits**:

- Access to code repository, which allows OOCI Working Group members to download the source code of the development version of the OOCI software implementation(s) and use it for debugging.
- Access to OOCI Working Group meetings and the OOCI mailing list.
- Technical support from the OOCI community through the OOCI mailing list.
- The company name is listed on the OOCI website as a OOCI Working Group member.

By registering, the company accepts in particular, without limitation, the following **obligations**:

- It must not give the source code of the development version of the OOCI software implementation(s) to any 3rd party.
- All bug fixes and all changes regarding unsupported platforms and compilers (for which no official binaries exist yet) shall be submitted to the respective OOCI module maintainers for reviewing and testing. Once the code change is in the code repository, private builds can be made using the repository code, provided that the official way to create a private namespace and private binary names is used. Additionally, the self-generated release must clearly indicate the snapshot version used and state that it is not an official release.
- Custom builds of the unmodified source of the OOCI software implementation(s) may be re-distributed in binary format only by OOCI Working Group member companies, provided that they follow the official mechanism for utilizing private binary names, namespaces, and indicate the repository snapshot version of the source code.
- It must submit improvements to the OOCI Working Group which will validate them and add them to the next OOCI release in reasonable time.
- For details about the handling of intellectual property please see the EMVA OOCI Working Group Application Form.
- Working group members are charged a reasonable admin fee in order to meet the EMVA's cost for hosting the OOCI standard.

## 6 Admin Fee

Companies being OOCI Working Group members are charged an annual admin fee for meeting the EMVA's cost of hosting OOCI. The fee is set out for the period of calendar years and set up by the EMVA board of directors. Once the amount has been agreed it will stay fixed for a period of three years until the next update. The admin fee is collected by the EMVA.

At the time of writing the admin fee is 512€, plus VAT if applicable, and billed in full for, potential partial, calendar year of OOCI Working Group membership. The WG membership can be cancelled latest 31. October for the upcoming calendar year.

## 7 Further Collaboration Rules

### *IPR Administration*

The OOCI Working Group uses the normal IP Regime as described in detail in both the EMVA Standards Development and Approval Procedures and the EMVA IPR Policy.

### *Chair / Vice-Chair*

The OOCI Working Group is led by two co-chairs. The OOCI Working Group chairs are elected for a period of three years according to the EMVA Standards Development and Approval Procedures. The voting takes place during the regular meetings.

### *Module Maintainers / Sub-Chairs*

For every OOCI module the OOCI Working Group appoints a module maintainer who acts as the sub-chair for this specific module.

### *Work Packages / Homework / Contributing Members*

The OOCI standard and its reference implementation are maintained and extended by the **contributing members** of the OOCI working group. The development runs along the following workflow:

- There are regular meetings. Typically, these meetings take place twice a year. Between meetings **work packages** are given to all companies who want to stay or become contributing members. A typical work package would be extending the software implementation(s), writing a part of the standard specification, developing tests for the validation framework, preparing SFNC proposals, and marketing/administrative issues.
- Each meeting starts by reviewing the work packages given from the last meeting. The contributing members accept the work package of each company by vote (simple majority). Those members having their work package accepted become contributing members as soon as the work package review is finished.



## EMVA OOCI Working Group Rules

### *Voting Rules*

If during the meeting, decisions are made, the contributing members vote according to the following rules, see Chapter 4.4 of the EMVA Standards Development and Approval Procedures:

- Voting is always performed during meetings or per email if approved modifications need to be incorporated.
- For technical decisions, only contributing members can vote.
- There is one vote per independent member company.

A 2/3 majority is required for changing the collaboration rules. At the end of each meeting the contributing members define work packages available for all companies who want to contribute for the next meeting. These work packages are designed to distribute the current standard work on each working company and take into account the various interests and skills of each company. Any working group member can take a work package (homework) and thus become contributing member at the next meeting provided the work package is approved. Spare work packages may be defined so that companies wanting to join between meetings can pick it up and become contributing member immediately on the next meeting.