GENICAM

Generic Interface for Cameras

GenICam License

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HISTORY

Version	Date	Changed by	Change
0.0	22.06.2005	Dr. Friedrich Dierks, Basler	First draft
0.3	10.07.2005	Dr. Friedrich Dierks, Basler	Reformatted text; small changes
1.0	12.07.2005	GenICam standard group	RC1
1.1	15.07.2005	Christoph Zierl, MVTec	- Added logo and application form - Rephrased GenICam compliance - Improved textual consistency - Deleted description of runtime / development features
1.1.1	20.07.2005	Rupert Stelz, STEMMER IMAGING	Logos changed

1 Overview

This document describes in non-legal wording what the GenICam license should state. Once the **GenICam standard group** has agreed on this document some attorney will fix the wording and make the document legally sound.

2 What is the subject of the GenICam license?

GenICam is a **standard** which comes with a **reference implementation**.

With GenICam the user can adjust the features of a camera by means of an API or GUI which are created from an **XML file** describing how the camera's features are mapped to it's registers.

The standard contains a description of the **syntax** of the XML file plus some **additional rules** which ensure the compatibility among the products of different vendors.

The reference implementation is a collection of software modules which can be distributed in two ways : as **runtime version** or as **development version**.

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

3 What are the rules for using the standard?

The standard documents are available for free. Users may download the latest version of the standard documents from the GenICam web site.

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

- Cameras providing a GenICam compliant XML file and obeying the standard's additional rules,
- Transport layers providing GenICam compliant interfaces to cameras and software libraries,
- Software libraries being able to access GenICam compliant cameras.

The GenICam compliance is tested according to checklists coming with the GenICam standard. Vendors may use the GenICam logo and use the name GenICam™ for advertising GenICam compliant products.

4 What are the rules for using the runtime version of the reference implementation?

The runtime version of the reference implementation is available for free to anybody.

Everyone may download the latest version from the GenICam web site anonymously.

The runtime version can is distributed under a modified BSD license:

Copyright (c) 2005, <owner of the software module>
All rights reserved.

Redistribution and use in source and binary forms, without[1] 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 GenICam 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 **may not modify** the software except the installation procedure. This is to make sure only properly tested and released GenICam versions are used in the machine vision community and the support effort is restricted.

5 What are the rules for using the development version of the reference implementation?

In order to get access to the development version of the GenICam reference implementation a company must become **associated member** of the GenICam standard group. It can do so at no cost by registering at the EMVA.

By registering the company gets the following benefits:

- It can download the GenICam source code and use it for debugging.

[1] The original BSD license reads here „with or without modification“.

- It is placed on the GenICam mailing list and can access the mailing list's archive.
- Through the GenICam mailing list it will receive technical support from the community.
- Its name is listed on GenICam's web site as an associated member.

By registering the company accepts the following obligations:

- It may not give the source code to any 3rd party.
- It may not do its own GenICam release besides of the official releases provided by the GenICam standard group.
- It may submit bug fixes to the GenICam standard group which will validate them and provide a new release including the bug fix in a reasonable time-frame. While waiting for the official bug fixed release the company may provide a self generated patch to its customers (run-time only). The self generated patch must clearly indicate modifications against the used official release.
- It may submit improvements to the GenICam standard group which will validate them and add them to the next GenICam release in a reasonable time-frame.
- The company must declare any intellectual property owned by it that may conflict with GenICam specifications. This is part of the application form.

6 How are new GenICam features provided?

The GenICam reference implementation is maintained and extended by the **contributing members** of the GenICam group. The development runs along the following workflow:

- There are regular meetings. During the start-up phase the meetings will take place quite frequently, e.g. 3-4 a year; later when the standard is settled the frequency will decrease to 1-2 a year.
- Between meetings **working packages** are given to all companies who want to stay or become contributing members. A typical working package would be extending the reference implementation or writing a part of the standard specification.
- Each meeting starts by reviewing the working packages given from the last meeting. The contributing members accept the working package of each company by vote (simple majority). Those members having their working package accepted become contributing members from the moment on the working package review is finished.
- If during the meeting decisions are made the contributing members do the votes according to the following rules:
  - Voting is always performed during meetings or shortly afterwards per email if approved modifications need to be incorporated
  - Only contributing members can vote
  - There is one vote per member (company)
  - A simple majority is required for normal technical decisions
  - A 2/3 majority is required for releases of the standard and/or the reference implementation

  - A 2/3 majority is required for changing the teamwork rules

- At the end of each meeting the contributing members define working packages available for all companies who want to contribute for the next meeting. These working packages are designed to put equal burden on each working company and take into account the various interests and skills of each company. Any associated member can take a working package and thus become contributing member at the next meeting provided the homework is properly done. Spare working packages are defined so that companies wanting to join between meetings can pick it up and become contributing member immediately on the next meeting if they like.

Each module of the GenICam standard and its reference implementation has one contributing member assigned to for coordinating the maintenance. This ensures each module's code integrity and makes sure that bug fixes and improvements are implemented within reasonable time frame. In order to release bug fixes fast each of the contributing members can build and test a GenICam maintenance release.

GenICam Standard Group Membership Application

We are interested in the work of the GenICam standard group, and hereby apply for membership as an associated member.

Our designated representative contact is:

Name: _____

Title: _____

Company: _____

Address: _____

_____

City: _____ **State/Province:** _____

Zip/Postal Code: _____ **Country:** _____

E-mail: _____

Phone: _____ **FAX:** _____

Signature of applicant: _____

Printed name: _____

Title: _____

Our interest category is:

❑ Supplier *(those directly concerned with the production, manufacture, or distribution of the products or components involved)*

❑ User *(those who use the product(s) involved)*

Our technical competence is considered to be in: *(check all areas that apply)*

❑ Camera / Camera Control ❑ API software

❑ Frame grabber ❑ Machine Vision software

❑ Other: _____

We have or are currently developing a GenICam compliant product: ❑ Yes ❑ No

Type device(s): _____

We plan to develop a GenICam compliant product: ❑ Yes ❑ No

Target introduction: ❑ 6 Months ❑ 12 Months ❑ Other: _____

Statement of qualification/interest: _____

_____

_____

_____

_____

_____

Other contacts we want on e-mail distribution:

Name: _____ **E-mail:** _____

Name: _____ **E-mail:** _____

Name: _____ **E-mail:** _____

Name: _____ **E-mail:** _____

EMVA administration use only:

Membership Check: Patent and IP statement:

Approval: Posted:

Patent and Intellectual Property Rights Disclosure Statement

Standards developed by the EMVA generally should not include the use of a patented item. However, technical reasons may justify such inclusion. In such cases the EMVA must place statements from parties to the standard into our records to reflect whether they are a patent holder or intend to hold any invention or intellectual property rights the use of which would be required for compliance with the proposed standard, and their intention for exercising such rights.

For acceptance as an associated member of the GenICam standard group the below listed company, its officers, or controlling parties declares:

- ❑ It does not hold and does not currently intend holding any invention or intellectual property rights the use of which would be required for compliance with the proposed GenICam standard.
- ❑ It does hold or do currently intend holding an invention or intellectual property rights the use of which would be required for compliance with the proposed GenICam standard. A license will be made available to any and all applicants under the following terms and conditions:

_____

_____

_____

_____

_____

_____

Certification to be completed by the appropriate Corporate Officer with reasonable oversight of corporate holdings, applications or intentions regarding patents and Intellectual Property, e.g. CEO, President or Senior Technical Officer.

I certify the above declaration to be a true and correct statement of fact.

Signature: _____ **Date:** _____

Name: _____ **Title:** _____

Company: _____