

Other languages:

English ? [????????????](#) ? [????????????](#)

Welcome to the Wiki resource of OpenSCADA, an open Supervisory Control and Data Acquisition System!

This resource is meant to collect and systematize the information about the project, as well as to coordinate the project-development activity. Under the Wiki ideology, users are welcome to update the information here, as well as to add new information.

Contents

- [1 Releases of OpenSCADA](#)
 - ◆ [1.1 The policy \(started from 0.8\)](#)
- [2 Core documents of OpenSCADA](#)
- [3 User API libraries](#)
- [4 Graphic Elements' libraries of the OpenSCADA system](#)
- [5 Modules of OpenSCADA](#)
- [6 Sub-projects of the OpenSCADA system nodes, components and different platforms adaptations](#)

1 Releases of OpenSCADA

- [0.9 Work](#)
- [0.8.0 LTS \(tests\)](#)
- [0.7.0 LTS \(tests\)](#); [0.7.1](#); [0.7.2](#)
- [0.6.0 \(tests\)](#); [0.6.1](#); [0.6.2](#); [0.6.3](#); [0.6.4](#)
- [0.5.0 \(tests\)](#)
- [0.4.0 \(tests\)](#); [0.4.1 \(tests\)](#)
- [0.3.0](#); [0.3.1](#)

1.1 The policy (started from 0.8)

OpenSCADA versions form into two branches:

- **"Work"**: development-work version with night builds for some numbers and specific (subscription to support) Linux distributions.

0.9+rNNNN, where "NNNN" ? SVN (SubVersion) revision number.

- **"LTS"** (Long Term Support): Formal and public release of last "Work" version, at releasing time, with support up to next iteration: "Work" -> "LTS" (zero update number), "Work"++.

0.8.U.S, where:

"U" ? Regular update number, 2-4 month. After the regular updating period from "Work" version to "LTS" will be merging all fixes and improvements, also breaking some API compatibility, but not

breaking the function and data compatibility, and U++.

"S" (doesn't implemented yet) ? Service update number. For any hot fixes automatic or manual (for specific) will be built a service update (S++) version which allowed only for consumers subscribed to official support.

2 Core documents of OpenSCADA

- [About OpenSCADA](#)
- [Terms and abbreviation](#)
- [Frequently asked questions \(FAQ\)](#)
- [Program manual](#)
- [Quick start \(video-addon\)](#)
- [Data acquisition in OpenSCADA](#)
- [OpenSCADA system API](#)
- [Programs, which experiences have been used on the program development](#)
- [Manual for OpenSCADA building from sources](#)
- [Manual for creation of modules for OpenSCADA](#)
- [Guide to localize crashes and to report about them](#)
- [Operator manual \(based on model AGLKS ? DemoDB\)](#)

3 User API libraries

- [User API of object model of the OpenSCADA core:](#)
 - ◆ [User object API of the language JavaLikeCalc.JavaScript](#)
 - ◆ [User object API of the visual control area engine](#)
- [API and libraries of the static functions of the OpenSCADA object model:](#)
 - ◆ [The library of functions of compatibility with SCADA Complex1 of the firm Ltd SIC "DIYA"](#)
 - ◆ [The library of standard mathematical functions](#)
 - ◆ [The library of OpenSCADA system API of the user programming area](#)
 - ◆ [The library of models of the technological devices](#)

4 Graphic Elements' libraries of the OpenSCADA system

- [Main elements library of the user interface](#)
- [Mnemonic elements library of the user interface](#)
- [Electrical elements library of the user interface](#)

5 Modules of OpenSCADA

Module	Name	Version	License	Source	Languages	Platforms
Subsystem "DB"						
SQLite	DB SQLite	2.3	GPL2	bd_SQLite.so	en,uk,ru,de	x86,x86_64,ARM
MySQL	DB MySQL	2.6	GPL2	bd_MySQL.so	en,uk,ru,de	x86,x86_64,ARM
PostgreSQL	DB PostgreSQL	1.8	GPL2	bd_PostgreSQL.so	en,uk,ru,de	x86,x86_64,ARM
FireBird	DB FireBird	1.4	GPL2	bd_FireBird.so	en,uk,ru,de	x86,x86_64,ARM

<u>DBF</u>	DB DBF	2.2	GPL2	bd_DBF.so	en,uk,ru,de	x86,x86_64,ARM
<u>ODBC</u>	DB by ODBC	0.2	GPL2	bd_ODBC.so	en,uk,ru,de	x86,x86_64,ARM
<u>LDAP</u>	Directory by LDAP	0.1	GPL2	bd_LDAP.so	en,uk,ru,de	x86,x86_64,ARM
Subsystem "Transports"						
<u>Sockets</u>	Sockets	2.3	GPL2	tr_Sockets.so	en,uk,ru,de	x86,x86_64,ARM
<u>Serial</u>	Serial interfaces	1.6	GPL2	tr_Serial.so	en,uk,ru,de	x86,x86_64,ARM
<u>SSL</u>	SSL	1.5	GPL2	tr_SSL.so	en,uk,ru,de	x86,x86_64,ARM
Subsystem "Transport protocols"						
<u>SelfSystem</u>	Self protocol of OpenSCADA	1.2	GPL2	prot_SelfSystem.so	en,uk,ru,de	x86,x86_64,ARM
<u>ModBus</u>	ModBus	1.0	GPL2	daq_ModBus.so	en,uk,ru,de	x86,x86_64,ARM
<u>OPC-UA</u>	Server OPC-UA	1.8	GPL2	daq_OPc_UA.so	en,uk,ru,de	x86,x86_64,ARM
<u>UserProtocol</u>	User protocol	0.8	GPL2	prot_UserProtocol.so	en,uk,ru,de	x86,x86_64,ARM
<u>HTTP</u>	HTTP-realization	3.1	GPL2	prot_HTTP.so	en,uk,ru,de	x86,x86_64,ARM
Subsystem "DAQ"						
<u>JavaLikeCalc</u>	Java-like based calculator	3.6	GPL2	daq_JavaLikeCalc.so	en,uk,ru,de	x86,x86_64,ARM
<u>LogicLev</u>	Logical level	1.7	GPL2	daq_LogicLev.so	en,uk,ru,de	x86,x86_64,ARM
<u>BlockCalc</u>	Block calculator	1.7	GPL2	daq_BlockCalc.so	en,uk,ru,de	x86,x86_64,ARM
<u>DAQGate</u>	Gateway of the data sources	1.7	GPL2	daq_DAQGate.so	en,uk,ru,de	x86,x86_64,ARM
<u>System</u>	System DA	2.1	GPL2	daq_System.so	en,uk,ru,de	x86,x86_64,ARM
<u>ModBus</u>	ModBus	1.8	GPL2	daq_ModBus.so	en,uk,ru,de	x86,x86_64,ARM
<u>DCON</u>	DCON client	1.2	GPL2	daq_DCON.so	en,uk,ru,de	x86,x86_64,ARM
<u>OPC-UA</u>	Client OPC-UA	1.6	GPL2	daq_OPc_UA.so	en,uk,ru,de	x86,x86_64,ARM
<u>MMS</u>	MMS(IEC-9506)	1.3	GPL2	daq_MMS.so	en,uk,ru,de	x86,x86_64,ARM
<u>SNMP</u>	SNMP client	0.7	GPL2	daq_SNMP.so	en,uk,ru,de	x86,x86_64,ARM
<u>ICP-DAS</u>	ICP DAS hardware	1.8	GPL2	daq_ICP-DAS.so	en,uk,ru,de	x86,ARM
<u>Siemens</u>	Siemens DAQ	2.0	GPL2	daq_Siemens.so	en,uk,ru,de	x86,x86_64,ARM
<u>DiamondBoards</u>	Diamond DAQ boards	2.1	GPL2	daq_DiamondBoards.so	en,uk,ru,de	x86
<u>Comedi</u>	DAQ boards by Comedi	1.0	GPL2	daq_Comedi.so	en,uk,ru,de	x86,x86_64,ARM
<u>SoundCard</u>	Sound card	0.7	GPL2	daq_SoundCard.so	en,uk,ru,de	x86,x86_64,ARM
<u>BFN</u>	BFN module	0.6	GPL2	daq_BFN.so	en,uk,ru,de	x86,x86_64,ARM
<u>SMH2Gi</u>	Segnetics SMH2Gi	1.0	GPL2	daq_SMH2Gi.so	en,uk,ru,de	x86,x86_64,ARM
<u>AMRDevs</u>	AMR devices	0.6	GPL2	daq_AMRDevs.so	en,uk,ru,de	x86,x86_64,ARM
<u>Fastwel</u>	Fastwel IO	0.1	GPL2	daq_Fastwel.so	en,ru	x86

<u>FT3</u>	DAQ FT3	0.4	GPL2	daq_FT3.so	en,ru	x86,x86_64,ARM
<u>BCM2835</u>	BCM 2835	1.2	GPL2	daq_BCM2835.so	en,uk,ru,de	x86,x86_64,ARM
Subsystem "Archives/History"						
<u>FSArch</u>	Arhivator on the file system	2.10	GPL2	arh_FSArch.so	en,uk,ru,de	x86,x86_64,ARM
<u>DBArch</u>	Arhivator on the DB	2.4	GPL2	arh_DBArch.so	en,uk,ru,de	x86,x86_64,ARM
Subsystem "User interfaces"						
<u>VCAEngine</u>	Visual control area engine	4.1	GPL2	ui_VCAEngine.so	en,uk,ru,de	x86,x86_64,ARM
<u>QTStarter</u>	Qt GUI starter	1.9	GPL2	ui_QTStarter.so	en,uk,ru,de	x86,x86_64,ARM
<u>QTCfg</u>	The system configurator (Qt)	3.3	GPL2	ui_QTCfg.so	en,uk,ru,de	x86,x86_64,ARM
<u>Vision</u>	Operation user interface (Qt)	4.6	GPL2	ui_Vision.so	en,uk,ru,de	x86,x86_64,ARM
<u>WebCfgD</u>	Dynamic Web configurator	1.2	GPL2	ui_WebCfgD.so	en,uk,ru,de	x86,x86_64,ARM
<u>WebCfg</u>	The system configurator (Web)	1.7	GPL2	ui_WebCfg.so	en,uk,ru,de	x86,x86_64,ARM
<u>WebVision</u>	Operation user interface (WEB)	2.2	GPL2	ui_WebVision.so	en,uk,ru,de	x86,x86_64,ARM
<u>WebUser</u>	Web-interface from the user	0.8	GPL2	ui_WebUser.so	en,uk,ru,de	x86,x86_64,ARM
Subsystem "Specials"						
<u>FLibSYS</u>	System API functions	1.4	GPL2	spec_FLibSYS.so	en,uk,ru,de	x86,x86_64,ARM
<u>SystemTests</u>	OpenSCADA system's tests	1.5	GPL2	spec_SystemTests.so	en,uk,ru,de	x86,x86_64,ARM
<u>FLibMath</u>	Math function's lib	0.6	GPL2	spec_FLibMath.so	en,uk,ru,de	x86,x86_64,ARM
<u>FLibComplex1</u>	Complex1 function's lib	1.1	GPL2	spec_FLibComplex1.so	en,uk,ru,de	x86,x86_64,ARM
External libraries of OpenSCADA						
<u>OPC-UA</u>	Library of implementing OPC-UA into OpenSCADA	1.2	LGPL3	libOPC-UA.{h,cpp}	en	x86,x86_64,ARM
<u>MMS</u>	Library of implementing MMS(IEC-9506) into OpenSCADA	1.0	LGPL3	libMMS.{h,cpp}	en	x86,x86_64,ARM

6 Sub-projects of the OpenSCADA system nodes, components and different platforms adaptations

- 02-2017: OpenSCADA adaption to the software platform "Android"
- 2006: Generic conception of the visual control area
- 2006: Values archiving of the OpenSCADA system
- 2006: Logical level of parameters of the OpenSCADA system
- 2006: User level of programming area of the OpenSCADA system
- 2003: Materials of the OpenSCADA project of it implementation official starting
- 2002: Initial technical task of the OpenSCADA system, DIYA Ltd