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Installation Guide for G-API on Linux

Introduction

The Linux software includes the following components:

- Linux service (daemon) for controlling of the devices (`gapi.service`)
- GOEPEL C-API (G-API-Linux-library) in the form of 'shared Libraries'
- Documentation of the C-API
- Code samples (C-Code) to illustrate the functions

Application environment

Supported Distributions

The software was developed and tested for the following distributions:

- openSUSE 15.1
- openSUSE Leap 42.2
- Debian GNU/Linux 9
- Ubuntu 16.04 LTS

System requirements

- Standard desktop PC with Intel processor and at least one network adapter
- Approximately 50 MB free disk space
- C/C++ compiler
- C compiler runtime library

Installation of the package

The installation package is provided in the form of a self-extracting archive
(created with 'Makeself' Vers. 2.3.1, file extension '*.run').
The file name has the following structure: install_g_api_<Version>_<Distro>.run
The Installation process is quite simple:

1. Copy install file to current directory
   i.e.: >cp ./Downloads/install_g_api_2.1.****.run ./
2. Make file executable
   i.e.: >chmod +x ./install_g_api_2.1.****.run
3. Start installation and follow the instructions
   i.e.:>./ install_g_api_2.1.****.run
4. Components
   The following components are installed:
   - Service 'gapi.service' (systemd)

- Shared Libraries (directory /usr/lib/g_api/)
- Documentation, samples, tools , setup-files (directory ./gapi)

5. Options
   The installation executable provides optional parameters.
   Run ‘./ install_g_api_2.1.****.run --help ‘ to see all options.
   For example you can get informations about the package (--info, --list), extract without starting the installation (--noexec) or choose an installation path (--target dir, default path is “./g_api”).

Useful commands to control the software

Build samples

- > cd samples
- > make

Get firmware versions of attached devices

- > bin/test_GetFirmwareVersions

Get a list of interfaces that can currently be used

- > bin/GetInterfaceList

Generate or refresh the configuration file

- > bin/g_api_refresh_config

Module info of the driver

- > sudo modinfo Pxi61xx

State of gapi.service

- > sudo systemctl status gapi.service

Restart of the service

- > sudo systemctl restart gapi.service

Set library path if needed

- > export LD_LIBRARY_PATH=/usr/lib/g_api