# Release Notes

## Introduction

This document summarizes release 19 of the ALP-4.2 *high-speed* application programming interface. The following remarks are to indicate additional programming capabilities.

These release notes apply to ALP-4.2 *high-speed* components of the following versions:

- API (alpV42.dll): 1.0.y.x, y≥19, x≥52
- API header file (alp.h): 14
- ALP API description (ALP-4 high-speed API description.pdf): 2013-05-30 (see last page of that document)

## Changes in Release 19

ALP has generally been improved regarding stability and operating system support (Microsoft® Windows® 8). Additionally there are some new extensions compared to Release 18. This section summarizes these changes. Please see the ALP-4 *high-speed* API description for details.

### LED API

The linearity of the LED drive current curve has been improved. The updated characteristics are implemented since API DLL version 1.0.19.52.

Please take care to select the correct LED Type in *AlpLedAlloc* calls in order to avoid LED overload.

Additional LED types of the ALP LED API:

- ALP_HLD_CBT90_UV (new in 1.0.19.52)
- ALP_HLD_CBT120_UV
- ALP_HLD_CBT90_WHITE
- ALP_HLD_CBT140_WHITE
- ALP_HLD_PT120TE_BLUE

### Extensions (AlpDevControl, AlpDevInquire)

- ALP_DEV_DMD_MODE (ALP_DEFAULT or ALP_DMD_POWER_FLOAT)
- ALP_PWM_LEVEL

### Extensions (AlpSeqControl, AlpSeqInquire)

- ALP_PWM_MODE (ALP_DEFAULT or ALP_FLEX_PWM)

- ALP_SEQ_PUT_LOCK

## Extensions (AlpProjControl, AlpProjInquire)

- ALP_PROJ_STEP (ALP_DEFAULT, ALP_LEVEL_LOW or HIGH, ALP_EDGE_RISING or FALLING)