Association for Standardisation of
Automation and Measuring Systems

ASAM GDI

Generic Device Interface

Part 2 of 3

Programmers Guide PID

Version 2.0.0

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Base Standard

Table of contents

1 Foreword

ASAM GDI makes it possible to connect devices and subsystems simply and smoothly with test automation systems.

GDI uses the following basic structure for documents:

- Base Standard
- Companions (e.g. MDAQ, ChasisDyno, Crash, MCD3)
- Transport Layer Communication Types (e.g. IP, COM, LPT, USB, SOFTSYNC)

The Base standard consist of 2 parts:

- Part 1: Common definition of interfaces and description syntax for all layers [ASAM GDI]
- Part 2: Parameterization Instance Description (PID)

The full content of GDI 4.5.0 is available in the ISO 20242 "Industrial automation systems and integration — Service Interface for Testing Applications" with the following parts:

- Part 2: Resource Management Service Interface (content of platform adapter and platform adapter Extension) [ISO 20242-2]
- Part 3: Virtual Device Service Interface (content of Device Driver API) [ISO 20242-3]
- Part 4: Device capability profile template (content of DCD und PID) [ISO 20242-4]
- Part 5: Application Program Service Interface (content of Coordinator Services) [ISO 20242-5]

At the moment the Predefined Service Functions and DIP are not reflected in the ISO standard, as they are specific modeling concepts, which are covered by the creation of ASAM GDI Companions.