

# Migrating ATS Projects to OptoLyzer Studio

## OptoLyzer Studio Editions V1.4.x

Brief Description

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## 1 ATS Framework in OptoLyzer Studio

The functionality of the well-known K2L Automotive Test System is included in the OptoLyzer Studio Editions starting with version 1.4.1. The ATS Framework within OptoLyzer Studio allows code generation for e.g., restbus simulation, test automation, rapid prototyping and system development. The availability of the features depend on the version of the OptoLyzer Studio Edition.

*Table 1: Comparison of ATS and OptoLyzer Studio Editions*

ATS Edition	OptoLyzer Studio Edition	Features (Examples)
ATS Entry	OptoLyzer Studio Lite	Connection to own software with test device (ATS Framework)
ATS Runtime	OptoLyzer Studio Runtime	Execution of test scripts and simulations
ATS Foundation	OptoLyzer Studio Foundation	Execution of test scripts and simulations
ATS Professional	OptoLyzer Studio Professional	Code Generation, possibility to add own test code

### 1.1 Migrating of Any ATS Projects

Projects realized with the K2L Automotive Test System can be migrated to the OptoLyzer Studio. Thus it is possible to realize simulation tasks (code generation) and analysis tasks in one application.

#### 1.1.1 Migration: Instructions

Follow the steps below to migrate any ATS projects:

1. Remove any ATS installation. Use the standard windows mechanism via Control Panel.  
**Alternative:**  
 Stop the ATS service before starting the OptoLyzer installation:
  - a. Click Start.
  - b. Right-click on Computer.
  - c. Select Manage.
  - d. Expand Services and Applications in the left panel.
  - e. Select Services.
  - f. Select ATS Service in the right panel.
  - g. Stop it.
2. Remove all K2L.Automotive references from your project.
3. Change the target framework of the project in 'Properties->Application: Target framework:' to .NET Framework 4.6.1

4. Add the following references:
  - K2L.Ats.dll
  - K2L.OptoLyzerMocca.dll
  - K2L.Bus
  - K2L.Log (Optional)
  - System.ComponentModel.Composition
5. Regenerate all assemblies with the new version of the K2L MAG Code Generator included in the OptoLyzer Studio package.
6. The LIN Configuration has changed. Now it is possible to directly use the LDF file instead of a binary blob file.

### 1.1.2 Migration: Changes

The following changes have to be considered during a migration:

- If no hardware is available, MostBus is not switching to a VMOST node. To enable this functionality activate virtualization for the bus.
- VMOST is generating a TX + RX message instead of an internal message.
- The LIN driver has been extended to meet all aspects of the LIN specification.
- LinBus and generated LIN device can also act as Spy.

### 1.1.3 Migration: Restrictions and Breaking Changes

There are some minor changes and restrictions which have to be kept in mind when migrating any ATS projects:

- MostBus.EnableControlTxPayload is deprecated.
- MostBus.EnableAsyncTxPayload is deprecated.
- MOST MHP 64kB+ is not working in Virtual Mode / Internal FBlock Communication.
- AtsTrace has some limitations (no Identifier, LogName, SourceName).
- LinBus.StartLin has a new interface.
- GeneratedLinDevice.LinDriverConfiguration is obsolete.

### 1.1.4 Further Assistance

Contact our technical support if you need further assistance. It is available at:

<http://www.k2l.de/contact>

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## OptoLyzer Studio Edition

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### Further Information

For more information on K2L's automotive products, including integrated circuits, software, and MOST development tools and modules, visit our web site: <http://www.k2l.de>. Direct contact information is available at: <http://www.k2l.de/contact>.

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#### Technical Support

Contact information for technical support is available at: <http://www.k2l.de/contact>.

### Legend

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