



# Important notes for migrating PLCcom from v8 to v9

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## About this document

This document is intended to give you an overview of recommended changes for the PLCcom migration from version 8 to 9. This is not a complete documentation.

Further information can be found in

- Code examples within the supplied software package
- Code examples and FAQ on our website <http://www.plccom.net/code-examples/plccom/s7.html>
- The online help (index.html) within the software package

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## Which programming platforms does PLCcom support?

PLCcom for S7 is available in three versions:

1. .Net version

The .Net version supports classic .Net Framework programming.

Furthermore, the delivery package contains a version for .Net-Standard Version 2.0. This component can be used to develop .Net Core, Xamarin, UWP or Unity applications.

2. Windows CE-version

It supports the development of applications under Windows CE Version 5 or higher.

3. Java version

The Java version provides developers with a Java component for Java application development, e.g. with Eclipse or Netbeans.

Since version 9, the development of Android apps is also supported.

**Concrete notes on the application can be found in the "Getting Started" manual from chapter "Which system components are required for the operation of PLCcom?"**

## Optimized reading or writing of data areas

In the now current version 9 of the PLCcom library, the function became ReadData(ReadDataRequestCollection) marked as deprecated.

This only concerns reading with the ReadDataRequestCollection, which is replaced by the new function ReadWriteData, the direct (unoptimized) reading or writing of individual requests is not affected by this change.

The recommended procedure is to use the new function ReadWriteData(ReadWriteRequestSet).

This new functionality introduces new internal optimization methods that allow high performance read / write operations.

It is now possible to choose between several optimization options or to automatically apply the best optimization with the expert version PLCcom. Now available is the high-performance summarization of data areas or the simultaneous writing and / or reading in different areas.

However, the previously used ReadData(ReadDataRequestCollection) function will continue to be available in the library within the next versions, ensuring downwards compatibility. Nevertheless, the functions marked as deprecated should be replaced on occasion.

**Concrete notes on the application can be found in the "First Steps" manual from chapter "Optimized Reading and Writing of Data"**

## Other changes

### Removed and replaced functionalities

As part of the cleanup, various methods and functions have been removed. These functionalities were already marked as deprecated within the previous versions and should therefore no longer be used for a long time.

Version	Type	Entfernte Funktion	Stattdessen zu benutzende Funktionalität
Alle	enum	ePLCType.Logo_compatibel	ePLCType.Logo0BA7_compatibel oder ePLCType.Logo0BA8_compatibel
Alle	enum	eDataType.UNICODECHAR	eDataType.STRING oder eDataType.S7_STRING
Alle	enum	eDataType.BCD	eDataType.BCD16
Alle	object	ReadItemRequest	ReadDataRequest
Alle	object	ReadItemRequestCollection	ReadWriteRequestSet
Alle	object	ReadRequest	ReadDataRequest
Alle	object	WriteRequest	WriteDataRequest
Alle	object	ReadItemResult	ReadDataResult
Alle	object	ReadItemResultCollection	ReadWriteResultSet
Alle	object	ReadResult	ReadDataResult
Alle	object	WriteResult	WriteDataResult
.Net	method	PLCcomDevice.SetPLCTime(DateTime)	PLCcomDevice.SetPLCClockTime (DateTime)
Java	method	PLCcomDevice.setPLCTime(Calendar)	PLCcomDevice.setPLCClockTime (Calendar)
.Net	function	PLCcomDevice.GetPLCTime()	PLCcomDevice.GetPLCClockTime()
Java	function	PLCcomDevice.getPLCTime()	PLCcomDevice.getPLCClockTime()
.Net	function	PLCComDataServer.AddReadDataRequest (ReadDataRequest value, String ItemKey)	PLCComDataServer.AddReadDataRequest (ReadDataRequest value)
Java	function	PLCComDataServer.addReadDataRequest (ReadDataRequest value, String ItemKey)	PLCComDataServer.addReadDataRequest (ReadDataRequest value)
.Net	function	PLCcomDevice.GetLocal_MPI()	PLCcomDevice.GetBUS_ADRESS_LOCAL()
Java	function	PLCcomDevice.getLocal_MPI()	PLCcomDevice.getBUS_ADRESS_LOCAL()
.Net	method	PLCcomDevice.SetLocal_MPI(int)	PLCcomDevice.SetBUS_ADRESS_LOCAL(int)
Java	method	PLCcomDevice.setLocal_MPI(int)	PLCcomDevice.setBUS_ADRESS_LOCAL(int)
.Net	function	PLCcomDevice.GetPLC_MPI()	PLCcomDevice.GetBUS_ADRESS_PLC()
Java	function	PLCcomDevice.getPLC_MPI()	PLCcomDevice.getBUS_ADRESS_PLC()
.Net	method	PLCcomDevice.SetPLC_MPI(int)	PLCcomDevice.SetBUS_ADRESS_PLC(int)
Java	method	PLCcomDevice.setPLC_MPI(int)	PLCcomDevice.setBUS_ADRESS_PLC(int)
.Net	function	PLCcomDevice.GetLocal_PPI ()	PLCcomDevice.GetBUS_ADRESS_LOCAL()
Java	function	PLCcomDevice.getLocal_PPI ()	PLCcomDevice.getBUS_ADRESS_LOCAL()
.Net	method	PLCcomDevice.SetLocal_PPI(int)	PLCcomDevice.SetBUS_ADRESS_LOCAL(int)
Java	method	PLCcomDevice.setLocal_PPI(int)	PLCcomDevice.setBUS_ADRESS_LOCAL(int)
.Net	function	PLCcomDevice.GetPLC_PPI()	PLCcomDevice.GetBUS_ADRESS_PLC()
Java	function	PLCcomDevice.getPLC_PPI()	PLCcomDevice.getBUS_ADRESS_PLC()
.Net	function	ConnectResult.HasConnected	OperationResult.getQuality

Java	function	ConnectResult.hasConnected()	OperationResult.getQuality()
.Net	function	ConnectResult.HasWorked	OperationResult.getQuality
Java	function	ConnectResult.HasWorked ()	OperationResult.Quality()
.Net	function	BasicInfoResult.Ordernummer	BasicInfoResult.Ordernumber
Java	function	BasicInfoResult.Ordernummer()	BasicInfoResult.Ordernumber()

## Deprecated functionalities

Within the new version, the following functionalities have been marked as deprecated:

Version	Type	Deprecated	Stattdessen zu benutzende Funktionalität
.Net	function	ReadData(ReadDataRequestCollection)	ReadWriteData(ReadWriteRequestSet)
Java	function	readData(ReadDataRequestCollection)	readWriteData(ReadWriteRequestSet)
Java	function	DeviceInfo()	getDeviceInfo()
Java	function	DisConnect()	disconnect()
Java	function	BeginConnect()	beginConnect()
Java	function	StartPLC()	startPLC()
Java	function	GetPLCClockTime()	getPLCClockTime()
Java	function	SetPLCClockTime(Calendar)	setPLCClockTime(Calendar)
Java	function	GetLEDInfo()	getLEDInfo()
Java	function	GetBasicInfo()	getBasicInfo()
Java	function	GetCPUMode()	getCPUMode()
Java	function	GetBlockList()	getBlockList()
Java	function	GetBlockLenght(eBlockType, int)	getBlockLenght(eBlockType, int)
Java	function	ReadPLCBlock_MC7(eBlockType, int)	readPLCBlock_MC7(eBlockType, int)
Java	function	WritePLCBlock_MC7(WritePLCBlockRequest)	writePLCBlock_MC7(WritePLCBlockRequest)
Java	function	DeleteBlock(eBlockType, int)	deleteBlock(eBlockType, int)
Java	function	GetDiagnosticInfo()	getDiagnosticInfo()
Java	function	GetSystemStatusList(int, int)	getSystemStatusList(int, int)
		BasicInfoResult.Ordernummer()	BasicInfoResult.getOrdernumber()
		BasicInfoResult.ModuleVersion ()	BasicInfoResult.getModuleVersion ()
		BasicInfoResult.FirmwareVersion ()	BasicInfoResult.getFirmwareVersion()
		BasicInfoResult.Name ()	BasicInfoResult.getName()
		CPUModeInfoResult.CPUModeInfo()	CPUModeInfoResult.getCPUModeInfo()
		CPUModeInfoResult.CPUStateInfo()	CPUModeInfoResult.getCPUStateInfo()
		LEDInfoResult.LEDInfo()	LEDInfoResult.getLEDInfo()
		OperationResult.InnerException()	OperationResult.getInnerException()
		OperationResult.Message()	OperationResult.getMessage()
		OperationResult.Quality ()	OperationResult.getQuality()

Any questions?

Please write an email to [support@indi-systems.de](mailto:support@indi-systems.de).

We will process your request promptly or respond to you directly.