

# PMS.Cliptest - Manual - Leoni - R2D2

Version 25.3.2.2



MAR Rostock GmbH - 10.10.2025

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## Document version management

Version	Date	Status	Range of Validity	Creator	Document
1.0.0.0	14.07.2023	Release	MAR / Global	Seidel	Publishing of Document V1.0.0.0
24.4.1.0	08.11.2024	Release	MAR / Global	Seidel	Updated to latest software version
24.4.2.0	06.12.2024	Release	MAR / Global	Seidel	Updated to latest software version
24.4.2.1	11.12.2024	Release	MAR / Global	Seidel	New option "Enforce Unique Clip Addresses" in File Backend, Fixed obfuscation issue
25.1.1.0	08.02.2025	Release	MAR / Global	Schuster / Seidel	Optimized performance of the service and clip receivment
25.1.1.1	22.02.2025	Release	MAR / Global	Schuster / Seidel	Fixed clip-exchange PinStatus.csv file modification to check on led additional to boardname and address
25.1.1.2	08.03.2025	Release	MAR / Global	Schuster / Seidel	Customer specific small changes

25.2.1.0	23.04.2025	Release	MAR / Global	Schuster / Seidel	Tests can be started without board scan if there is only one board in masterdata, Eventing improvements
25.2.2.0	08.05.2025	Release	MAR / Global	Schuster / Seidel	Added new option "Allow anybody to login by scan" to allow login by scan without the operator being configured in the system
25.3.1.0	02.07.2025	Release	MAR / Global	Schuster / Seidel	Fixed Web-Login with empty password, several fixes and improvements
25.3.1.1	25.07.2025	Release	MAR / Global	Schuster / Seidel	Customer specific changes
25.3.2.0	19.08.2025	Release	MAR / Global	Schuster / Seidel	Improved Board-Teaching UI and added clip validation, Statistic data fixed
25.3.2.1	06.09.2025	Release	MAR / Global	Schuster / Seidel	Fixed empty Test-Mode in ViewClient after reconnect
25.3.2.2	05.10.2025	Release	MAR / Global	Schuster / Seidel	Printing bugfix in case of option Combined Test Result

## Referenced Documents

ID	Document
1	PMS.Cliptest.Documentation.v25.3.2.2.pdf

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## 1 General Information

PMS.Cliptest references (external) dll files provided by Leoni. These dlls reference some more dependencies which need to be supplied in the same folder. PMS.Cliptest calls functions in these dlls during the start and the end of each test.

## 2 Workflow

Tests are initialized by operator scans. If a scan of type "Order" was scanned the R2D2 function "ElectricalTester.getLabelETCounter" is called to receive a number. If this number is above 3 the test start is rejected with an error message. If the value is in range the R2D2 function "ElectricalTester.getLabelPartId" is used to receive a value which is further used as the Ordernumber. The cliplist for the test is retrieved from the PMS.Cliptest backend by the translated ordernumber and the scanned board. After the test completed the test results are reported to R2D2 if there is at least one Printing-Event (PMS.Cliptest.ViewClient) configured which matches the test type, status and result. If this configuration is missing there will be no feedback to R2D2. The R2D2 function "ElectricalTester.registerLabelET" is called to report the test result. This function requires a parameter "EmployeeId" which needs to be supplied. To provide this value it is required to create a scan configuration (in PMS.Cliptest.ViewClient) with type "Custom" and set the description to "username". If feedback to R2D2 should be supplied it is required to configure at least 3 scans in the cliptest scan sequence: Custom, Board and Order.

## 3 Required Files

The following list shows the well known files which are required to use R2D2 interface. This list is based on experience and testing only. Changes can occur at any time as Leoni implements the LWS dlls and their dependencies.

**Important:** Please make sure to use dlls for platform "AnyCpu". x86 platform won't work.

Name	Version	Description
LWS.R2D2.dll	1.0.0.0	All used functions by PMS.Cliptest are in this dll. Delivered with PMS.Cliptest, might be not the latest version if implementation changed by Leoni
LWS.Db.dll	1.0.0.0	Used by LWS.R2D2.dll. Delivered with PMS.Cliptest, might be not the latest version if implementation changed by Leoni
LWS.Db.dll.config	-	Delivered with PMS.Cliptest, supposed to be configured for each project separately
LWS.Util.XMLCrypt.dll	1.0.0.0	Used inside other dlls
Connections.sxml	-	Required by R2D2 dlls
Oracle.ManagedDataAccess.dll	4.122.21.1	Required by R2D2 dlls. Optional available in Nuget package "Oracle.ManagedDataAccess" (Version 21.6.1 for example)

## 4 Configuration

### 4.1 Quality Confirmation Text File Configuration

Quality Confirmation Text File Configuration

☒ Create Quality Confirmation Text File

Max Files

File Path

>>

File Name

Line Pattern

**Important:** To use this option it is required that the option "Enable Quality Confirmation" in PMS.Cliptest.ViewClient is enabled

This section allows the configuration for the creation of text files related to the occurrence of quality issues during tests. A quality issue is considered as a clip change from state NeedlessPressed to NeedlessNotPressed. That means a cilp was pressed and released although it was not part of the test list.

Setting	Description
Create Quality Confirmation Text File	Enable the creation of text files
File Path	The path in that the text files will be created
File Name	The pattern of the resulting file name. Use bookmarks to create files with a unique file name. Refer to the general PMS.Cliptest documentation to get detailed information about the meaning and usage of bookmarks. Select available bookmarks using the down arrow button to the right.
Line Pattern	Defines the content of each line in the text file. Combine static text alongside with bookmarks. Select available bookmarks using the down arrow button to the right. For each quality issue which happened a new line will be added to the text file.
Max Files	The maximum number of text files in the configured "File Path". If limit is reached the oldest file will be deleted. Set to 0 to never delete any files.

## 5 Example Scan Sequence configuration

Scancode Sequence

Type

Cliptest

Name

Cliptest Scans

☐ Enforce Sequence

Type	Scan Pattern	Comment	Keep	Prefix	Transform Pattern	Separator	
Custom	^(8)	username	<input type="checkbox"/>				
Order	^(L)	Numero de serie	<input type="checkbox"/>				
Board	^(CC)	Tablero	<input type="checkbox"/>				

+

 Add

🗑

 Remove

^

 Up

▼

 Down

## 6 Troubleshooting

1. Ensure that the dlls could be loaded and the R2D2 interface is shown in PMS.Cliptest.ViewClient Overview. If dlls can't be loaded ensure the correct versions of the dlls are present. Dlls for x86 platform won't work - make sure to use "AnyCpu" R2D2 dlls. Look for Logmessages in "PMS.Cliptest.Service\_Default.log" (logpath is by default "C:/Temp" folder) to see missing or wrong files.
2. Check in "C:/R2D2" folder (create if not existing) if there are R2D2 log messages.

3. Enable Loglevel = Trace in PMS.Cliptest.ServiceConfigurator and check for errors in logfile "PMS.Cliptest.Service\_ProductionServer.log". There is information about any input to R2D2 and all output from R2D2.

## 7 Additional Notes

- To use the scanned order (LabelEt) for printing/pdf output please use bookmarks [Scan2],[Scan3] ... [Scan5] in the label design. It depends on the scan configuration at which index the LabelEt value is supplied. The LabelEt value is saved as Custom-Scan in the Test before it is translated by R2D2.