
PMS.ClipTest.ClipReporting

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1 General Instructions

This handbook explains the usage of the PMS.ClipTest.ClipReporting GUI (graphical user interface) for the PMS.ClipTest system. This handbook will only explain how to use the ClipReporting and not the PMS.ClipTest itself. For in depth information of the PMS.ClipTest refer to the PMS.ClipTest user manual.

1.1 Copyright

This description is protected by copyright.

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The manufacturer is not liable for damages that result from improper use of the system and/or its individual components or failure to heed the specifications and rules of conduct in this description.

Changes to the programming of the plant's system functions, especially safety equipment, may only be undertaken by authorized technicians or by the manufacturer's own service personnel. Improper programming compromises the plant's safety and will lead to the loss of any right to assert warranty claims.

The manufacturer only guarantees smooth and regular operation of the control system if the rules of this description are heeded and the system is used properly.

To the extent permitted under law, the manufacturer's liability is restricted to cases of gross negligence and malicious intent.

This applies especially to subsequent damages.

2 System Structure

The ClipReporting is an addition to the PMS.ClipTest program. The ClipReporting will analyse and display capture data of every Clip from the PMS.ClipTest. This helps to determine the health status of a Clip.

2.1 Minimal Requirements

- Microsoft Windows XP or higher
- Microsoft .NET Framework 3.5
- Microsoft SQL-Server 2005

2.2 Licensing

There is no special license needed to run PMS.ClipTest.ClipReporting but PMS.ClipTest 2016 needs a PMS.ClipTest.ClipReporting license to generate the corresponding data.

2.3 Technology Overview

The PMS.ClipTest.ClipReporting tool is based on the Microsoft .NET-Framework 3.5 and does not need additional external software components.

2.4 Components

2.4.1 PMS.ClipTest.ClipReporting

The ClipReporting GUI is used for querying, analysing and displaying Clip data from a database. This Clip data was previously collected by a PMS.ClipTest Pro instance.

2.4.2 PMS.ClipTest 2016

The PMS.ClipTest 2016 is not a real component of the ClipReporting but it is required for collecting and saving data to the database.

3 Project Specifics - Overview

3.1 Database Structure

The table COM_OGC.ClipLog contains the Clip-data collected by PMS.ClipTest 2016.Service.

Name	Data-type	Description
ID	GUID	ID of the test
Workplace	Varchar(10)	Place on the line, where the test was performed
Board	Varchar(100)	Board, which contains the clip
KSK	Varchar(20)	Order, that was tested
KSKType	Varchar(20)	Type of harness
LED	Int	Clip number on the board
TriggerCount	Int	Count of status changes of the clip (on / off) between the start and the end of the test
X_Axis	Varchar(10)	X-coordinate of the clip on the board
Y_Axis	Varchar(10)	Y-coordinate of the clip on the board
SwitchkeyNumber	Varchar(10)	Clip address
ProcessStatus	Varchar(50)	Specification of test-type (ClipTest, EmptyTest)
TestDuration	Int	Time between start and end of test in minutes
CreateTime	Datetime	Timestamp for the creation of the rows

4 Graphical User Interface

4.1 Main Window

The main windows consist of 2 tabbed views, which are displaying the Clip and KSK test data. To show these views, navigate with the help of the tabs to it.

To quickly move between databases the user can change the database connection at the lower right corner by selecting a database from the given list.



Picture 4-1 Main window

4.1.1 Ranking of Clip events

The Clip ranking view shows all selected clips sorted after the summed triggered count or average trigger count per test. This helps to determine the wear level of these clips.

To generate a report only a beginning and end-date is needed, this date refers to the time the cliptest happens.

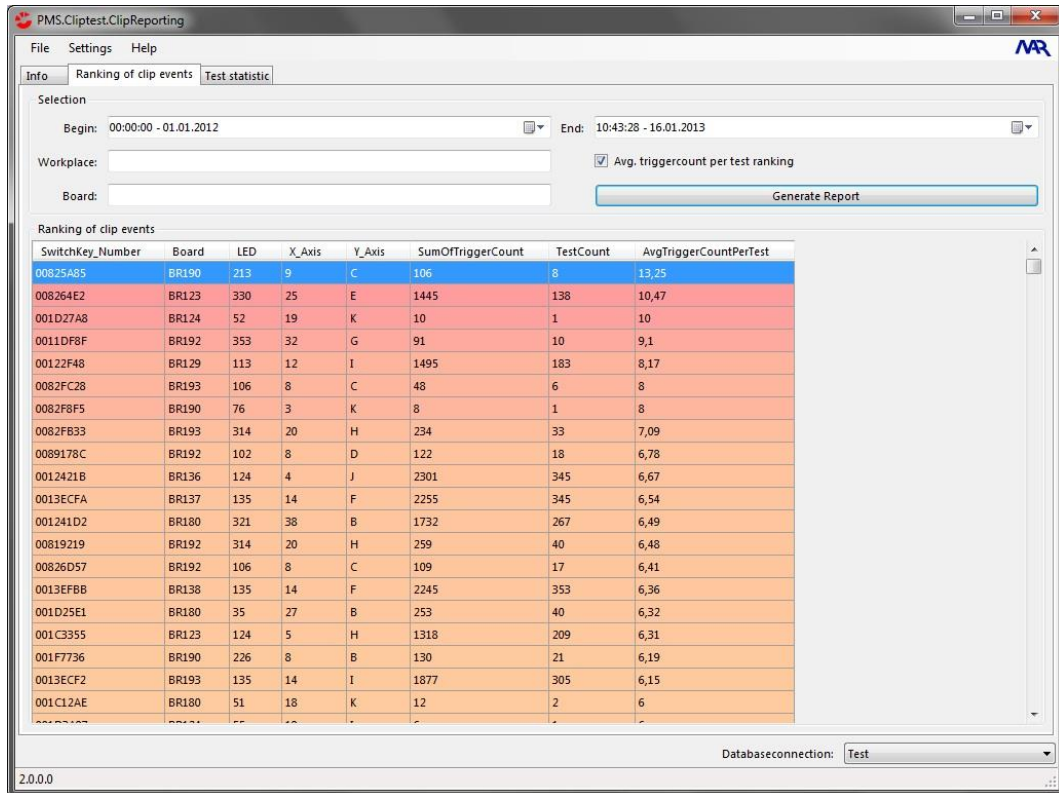
To filter the data, the user can optionally enter a board or workplace name. Also incomplete name are supported, these will be interpreted as wildcard filter. E.g. if the user enters the string "BR" into the Board edit-box, all boxes which names start with "BR" will be listed. This also works with the workplace edit-box.

Normally all clips are ordered by the summed trigger count, to order these by the average trigger-count per test the user can select the "Avg. triggercount per test ranking".

The screenshot shows the 'PMS.ClipTest.ClipReporting' application window. It has a menu bar (File, Settings, Help) and a toolbar with 'Info', 'Ranking of clip events', and 'Test statistic' tabs. The 'Ranking of clip events' tab is active, displaying a table with columns: SwitchKey_Number, Board, LED, X_Axis, Y_Axis, SumOfTriggerCount, TestCount, and AvgTriggerCountPerTest. The table contains 20 rows of data. Below the table is a 'Databaseconnection:' dropdown menu set to 'Test'. The version number '2.0.0.0' is visible in the bottom left corner.

SwitchKey_Number	Board	LED	X_Axis	Y_Axis	SumOfTriggerCount	TestCount	AvgTriggerCountPerTest
001D2388	BR127	320	37	C	2963	549	5,4
001C133C	BR122	319	39	B	2901	603	4,81
001D2466	BR122	320	37	C	2618	595	4,4
001D256F	BR127	319	39	B	2544	551	4,62
001D2441	BR122	321	36	B	2362	599	3,94
0012421B	BR136	124	4	J	2301	345	6,67
001C3242	BR127	110	18	B	2267	521	4,35
0013ECFA	BR137	135	14	F	2255	345	6,54
0013EFBB	BR138	135	14	F	2245	353	6,36
001C326C	BR127	133	18	E	2064	498	4,14
00147C89	BR133	135	14	F	2022	353	5,73
001D28F9	BR127	121	3	H	1962	518	3,79
001D25AD	BR127	109	17	B	1924	487	3,95
0013ECF2	BR193	135	14	I	1877	305	6,15
001C3350	BR122	133	18	E	1812	509	3,56
001D2409	BR122	110	18	B	1783	561	3,18
001C1336	BR122	109	17	B	1782	513	3,47
001241D2	BR180	321	38	B	1732	267	6,49
0010A801	BR120	135	14	F	1689	299	5,65
001D232E	BR127	322	33	B	1637	507	3,23

Picture 4-2 Normal summed trigger-count clip report



The screenshot shows the 'PMS.ClipTest.ClipReporting' application window. It has a menu bar (File, Settings, Help) and a toolbar with 'Info', 'Ranking of clip events', and 'Test statistic' tabs. Below the tabs is a 'Selection' section with 'Begin' (00:00:00 - 01.01.2012) and 'End' (10:43:28 - 16.01.2013) dropdowns, a 'Workplace' field, a 'Board' field, and a checked checkbox for 'Avg. triggercount per test ranking'. A 'Generate Report' button is located to the right. The main area displays a table titled 'Ranking of clip events' with the following columns: SwitchKey_Number, Board, LED, X_Axis, Y_Axis, SumOfTriggerCount, TestCount, and AvgTriggerCountPerTest. The table contains 25 rows of data. At the bottom right, there is a 'Databaseconnection:' dropdown menu set to 'Test'.

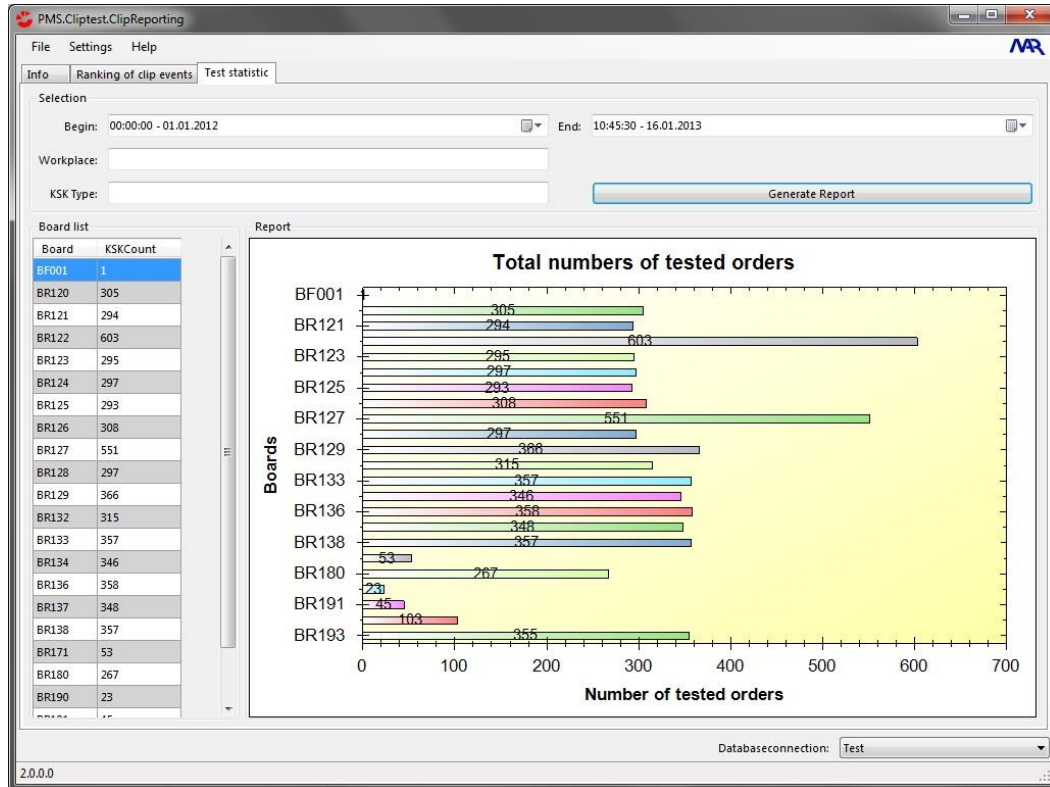
SwitchKey_Number	Board	LED	X_Axis	Y_Axis	SumOfTriggerCount	TestCount	AvgTriggerCountPerTest
00825A85	BR190	213	9	C	106	8	13,25
008264E2	BR123	330	25	E	1445	138	10,47
001D27A8	BR124	52	19	K	10	1	10
0011DF8F	BR192	353	32	G	91	10	9,1
00122F48	BR129	113	12	I	1495	183	8,17
0082FC28	BR193	106	8	C	48	6	8
0082F8F5	BR190	76	3	K	8	1	8
0082FB33	BR193	314	20	H	234	33	7,09
0089178C	BR192	102	8	D	122	18	6,78
0012421B	BR136	124	4	J	2301	345	6,67
0013ECFA	BR137	135	14	F	2255	345	6,54
001241D2	BR180	321	38	B	1732	267	6,49
00819219	BR192	314	20	H	259	40	6,48
00826D57	BR192	106	8	C	109	17	6,41
0013EFBB	BR138	135	14	F	2245	353	6,36
001D25E1	BR180	35	27	B	253	40	6,32
001C3555	BR123	124	5	H	1318	209	6,31
001F7736	BR190	226	8	B	130	21	6,19
0013ECF2	BR193	135	14	I	1877	305	6,15
001C12AE	BR180	51	18	K	12	2	6

Picture 4-3 Avg. trigger-count per test Clip report

4.1.2 Test Statistics

The test statistics view shows all selected Boards ordered by name. The graphic displays the total number of tested KSK for each selected board.

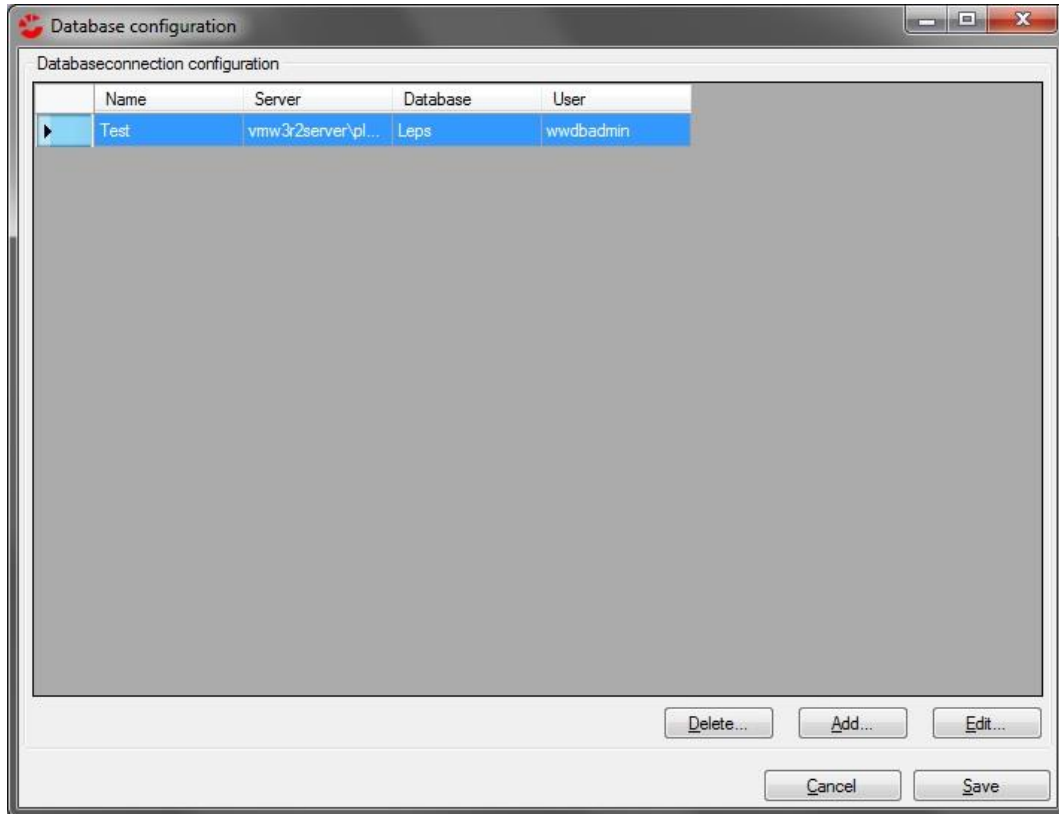
To filter the data, the user can optionally enter a workplace or KSK-Type name. These input-boxes work the same as in the Clip ranking report, they accept also incomplete names.



Picture 4-4 KSK test statistics report

4.2 Database Connection Dialog

To configure a database the user must enter a database connection with the help of the database configuration dialog. This dialog is being located under the settings menu.



4.3 General Settings Dialog

To specify a path where the error-log is saved open the general settings dialog with the help of the settings menu.

