

Title Interface Description	Confidentiality Confidential	Document no KS003M0106b01	Revision V1
Project SAKI File Format	Issued by Veronica Olsson		Date 2011-10-01

Interface Description

SAKI File Format

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Table of contents

1 DOCUMENT INFORMATION.....	3
1.1 Summary	3
1.2 Terminology	3
1.3 References	3
1.4 Revision history.....	3
2 FUNCTION OVERVIEW	3
3 MAIN FUNCTIONS	3
3.1 Bartrack	3
3.2 Modeling	3
3.3 XML File.....	3
3.3.1 Parameters	4

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1 DOCUMENT INFORMATION

1.1 Summary

Interface description for SAKI equipment file format.

1.2 Terminology

Optional A parameter that is optional can be left blank in the input files.

1.3 References

N/A

1.4 Revision history

Revision	Comment	Changed by /date	Approved by / date
V1	First version	VEOL/2011-10-01	

2 FUNCTION OVERVIEW

There is one specific xml file format interpreted by the SAKI service.

Function	Description	Affected database table
XML File	Contains test and Repair information	CONTROL_DATA, CONTROLLED_UNIT CAUSE_OF_FAULT, CAUSE_OF_FAULT_COMMENT, CAUSE_OF_FAULT_TIME, CAUSE_OF_FAULT_AOI, AFFECTED_PRODUCT Possible also affected: AREA, LINE, CONTROL_CATEGORY, PRODUCT, PRODUCT_RELATION, CONTROL_PLACE, REPORT_PLACE

3 MAIN FUNCTIONS

All main considerations and requirements are described in this section.

3.1 Bartrack

All individuals have to exist in Bartrack to be accepted.

3.2 Modeling

If the modeling supplied in configuration files doesn't exist in Quality database it will be created automatically.

3.3 XML File

For each inspected product there is one xml file.

Example:

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<InspectionResult>
  <BoardData>
```

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```

<Program_name>ROA128_2868_2_R1BP</Program_name>
<Board_side>primary</Board_side>
<Status>B</Status>
<Test_time>20110818215225</Test_time>
<Repair_time>20110818215338</Repair_time>
<Tester_id>LBT1</Tester_id>
<Repair_id>LBR1</Repair_id>
<Serial>SC825105821</Serial>
<Machine_name>BF281034024 M281024</Machine_name>
<Production_line>LINE_B</Production_line>
<Factory>KL</Factory>
<Cycletime>28.7</Cycletime>
<NoInspComponents>1110</NoInspComponents>
<Operator_id>1</Operator_id>
</BoardData>
<Components>
  <Component>
    <Article_number>REG7246070/72</Article_number>
    <position>L4723</position>
    <FaultyBoard>1</FaultyBoard>
    <Pin_Number>0</Pin_Number>
    <Picture_name>20110818215338-L4723-1-0-7.jpg</Picture_name>
    <Algorithm>Range</Algorithm>
    <AOI_fault>Shift</AOI_fault>
    <Operator_fault>FalseCall</Operator_fault>
  </Component>
  <Component>
    <Article_number>RYT1096268/1</Article_number>
    <position>D6010</position>
    <FaultyBoard>1</FaultyBoard>
    <Pin_Number>17</Pin_Number>
    <Picture_name>20110818215338-D6010-1-0-37.jpg</Picture_name>
    <Algorithm>AS_Av_LeadLength</Algorithm>
    <AOI_fault>Dryjoint</AOI_fault>
    <Operator_fault>FalseCall</Operator_fault>
  </Component>
</Components>
</InspectionResult>

```

3.3.1 Parameters

XML tag	Description	Optional	Data Type	Max Length	Not Used
<Program_name>	Name on test program	No	string	30	
<Board_side>	The side of the board Valid values: PRIMARY/ SECONDARY	No	string	12	
<Status>	Test result Bad/Good Valid values: B/G	No	string	1	
<Test_time>	Date and time for the AOI inspection	No	string	14	
<Repair_time>	Date and time for the inline repair or offline repair.	No	string	14	
<Tester_id>	Tester id, this is the unique identifier for the	No	string	12	

Title Interface Description	Confidentiality Confidential	Document no KS003M0106b01	Revision V1
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	AOI cell in the production line.				
<Repair_id>	Repair id. This is the unique name for an inline or offline repair cell.	No	string	10	
<Serial>	This is the unique identifier of the individual.	No	string	20	
<Machine_name>	Machine identification.	No	string		x
<Production_line>	Line name	No	string	12	x
<Factory>	Factory code	No	string	3	x
<Cycletime>	Time in inspection	No	number	-	x
<NoInspComponents>	Number of inspected components	No	number	-	x
<Operator_id>	UserId for operator	No	string	10	
<Article_number>	Product Number and R-state for inspected component	No	string	32	
<position>	Position on Board	No	string	10	
<FaultyBoard>	Which board on inspected panel	No	number	-	
<Pin_Number>	The leg/pin where fault found	No	string	5	
<Picture_name>	File name for picture taken at inspection	Yes	string		x
<Picture_nameL>	File name for picture taken at inspection	Yes	string		x
<Picture_nameS>	File name for picture taken at inspection	Yes	string		x
<Picture_nameD>	File name for picture taken at inspection	Yes	string		x
<Algorithm>	Algorithm used by the AOI	No	string	20	
<AOI_fault>	Type of error according to the AOI machine	No	string	20	
<Operator_fault>	Categorized error according to the operator that makes a manual inspection	No	string	20	
<OCR_Result>	Optical	Yes	string		x

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	recognition result				
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If test result is G (Good) no tags from <Article_Number> and below will be present in the file.

For a B(Bad) test result the tags from <Article_Number> and below can be repeated a number of times.

Some of the tags are mandatory but the information is still not used in SAKI application. The last column "Not used" has an x in the column if the data is not used and/or stored in database.