NS-HPDCA

HP3070 Data Collector and Analyser



NS-HPDCA: Suite

- NS-HPDCA was built using modern development technologies Visual Studio, Bootstrap, PHP, Java and MySQL to name a few
- NS-HPDCA is delivered as a suite of applications which together create a powerful engineering and manufacturing tool for analysing In Circuit Test activities
- ▶ **NS-HPDCA** contains
 - HPDC Data Collector Desktop based Application
 - HPDA Data Analyser Desktop based or Web based application
 - Last Test Result Desktop based or Web based application

NS-HPDCA: HPDC

HPDC collects real time information from all your ICT machines

- It's directly connected to the ICTs
- It's always looking for new log files and it parses their content into a MySQL database
- It's doing a complete loop (tested with 20 locations to parse) in less than one minute

Data Collectors are available for:

- HP/Agilent/Keysight3070
- Marconi/IFR4220
- Custom parsers are also available on demand for any other LCT machines or any Functional Testers

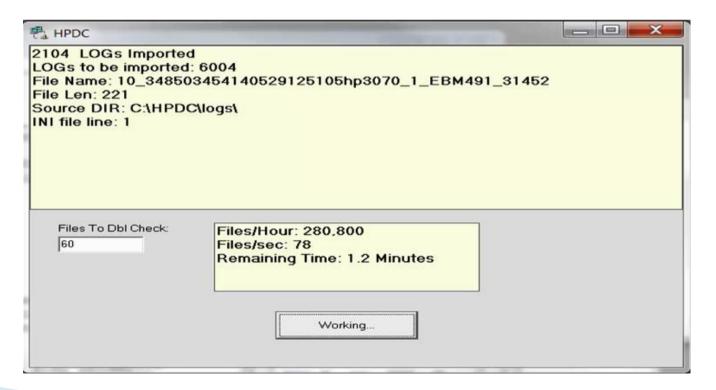
NS-HPDCA: HPDC

Log files Management

- ICT machines are generating log files that contain valuable information regarding tests performed for a specific board, like:
 - Pass/Fail
 - Test and Sub Test names
 - Test and Sub Test results
 - Test Type
 - Measured Value
 - Limits
 - Date
 - Board Serial Number
- Using HPDC all these data are saved in a MySQL database and are available for your further analysis
- HPDC saves in the database all the FAIL measurements for your review, if you
 require to save in the database ALL the PASS and FAIL measurements please ask
 us about HPDC for NPI.

NS-HPDCA: HPDC

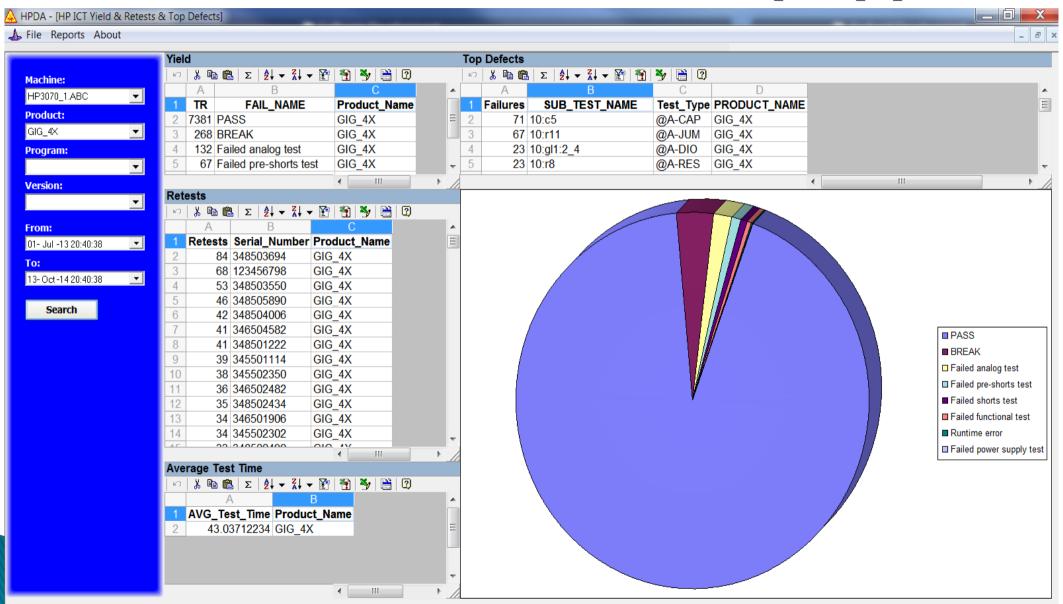
- Check the video below for more details about HPDC
 - https://youtu.be/XBnfJCSdFW0



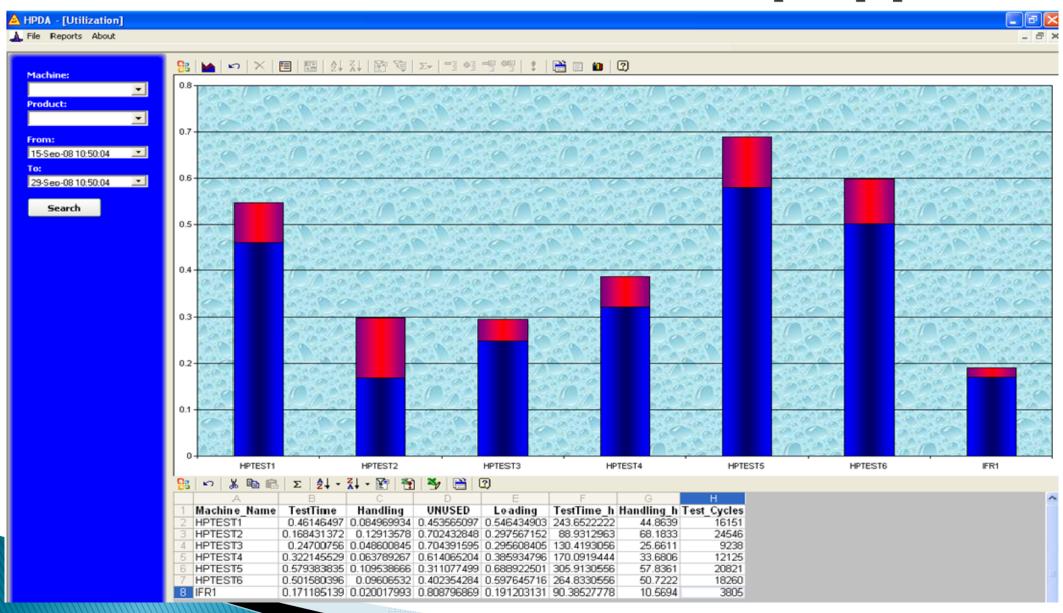
NS-HPDCA: HPDA

- HPDCA is a software solution developed to analyse the data collected by HPDC from your ICT machines
 - Through comprehensive reports HPDA is capable of presenting a holistic image of your ICTs
 - Available reports are:
 - True Yield Report
 - Retest Rate Report
 - Top Defects Report
 - Average Cycle Time Report
 - Utilization Report
 - Comprehensive measurements search
 - All these reports can be easily exported in Excel for further analysis

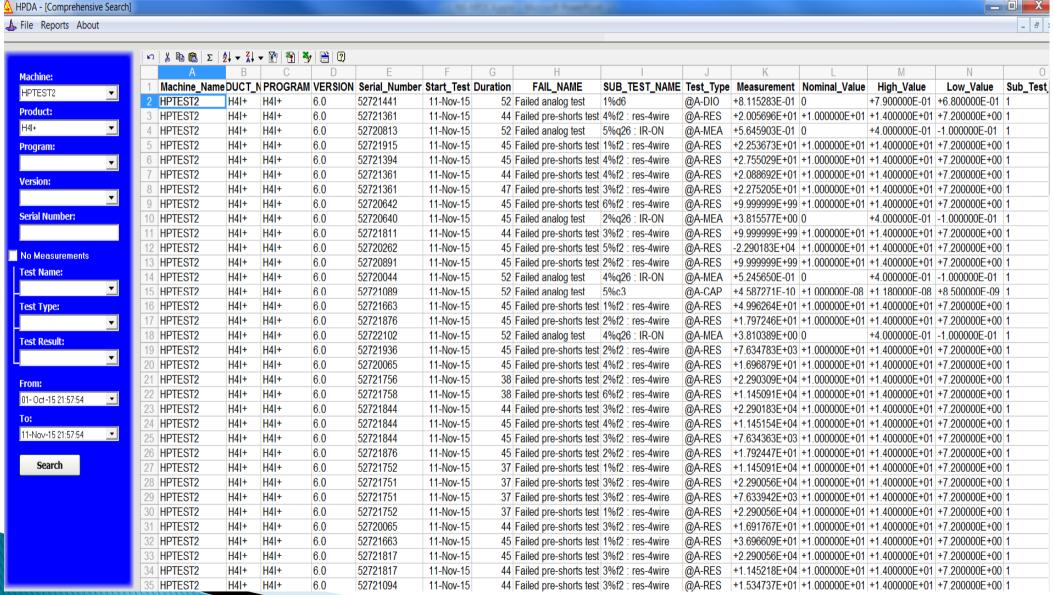
NS-HPDCA: HPDA – desktop app

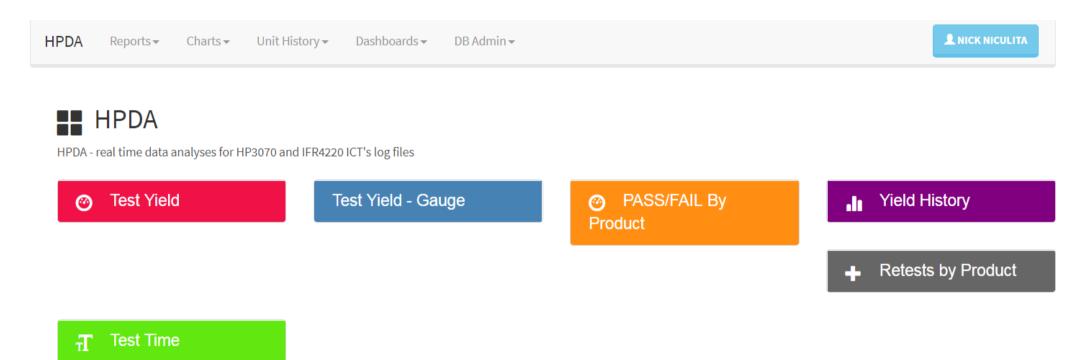


NS-HPDCA: HPDA – desktop app



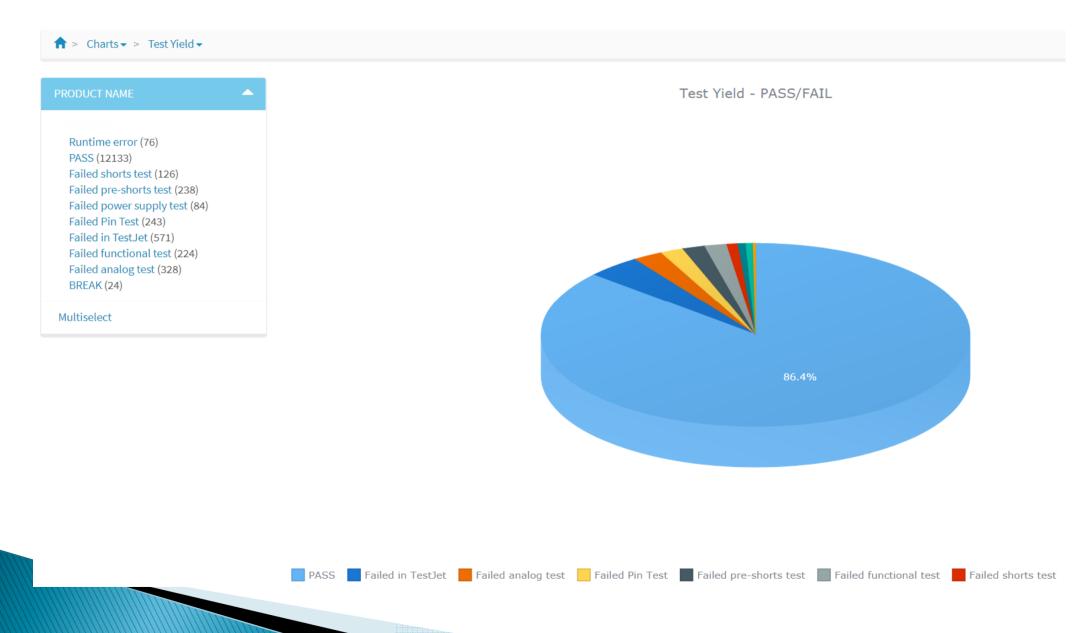
NS-HPDCA: HPDA – desktop app



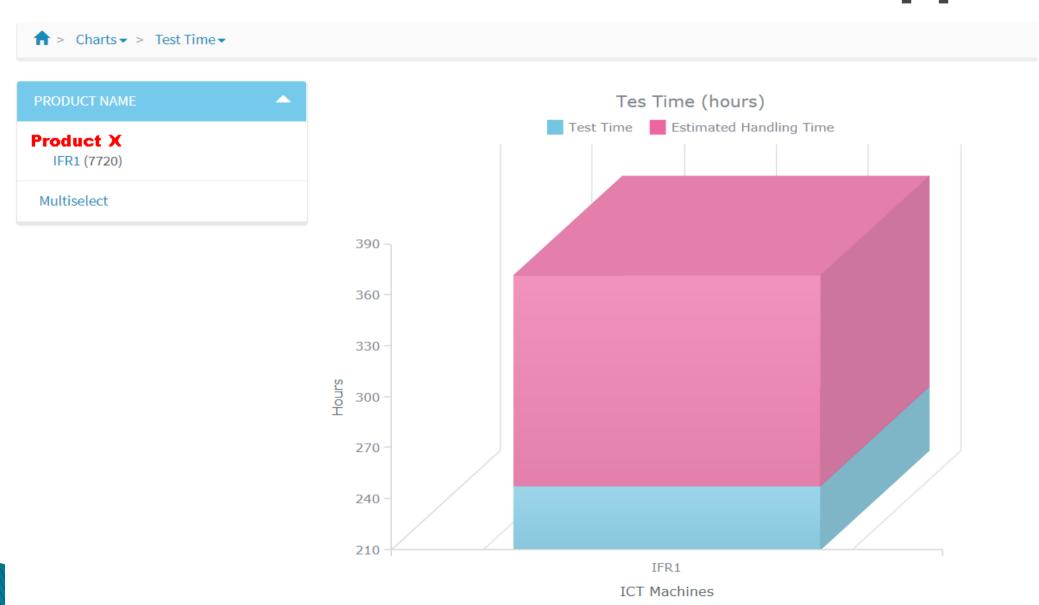


Dashboards

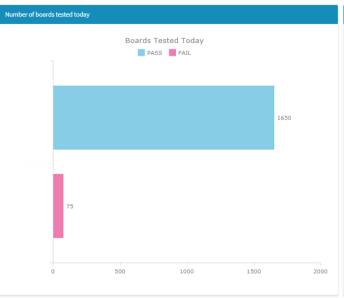


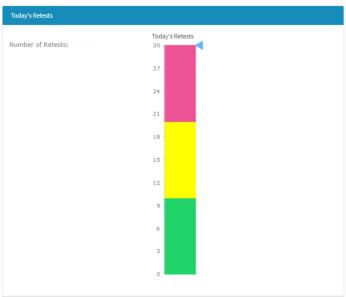


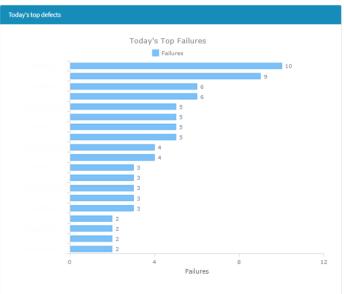




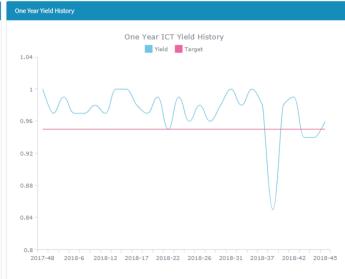




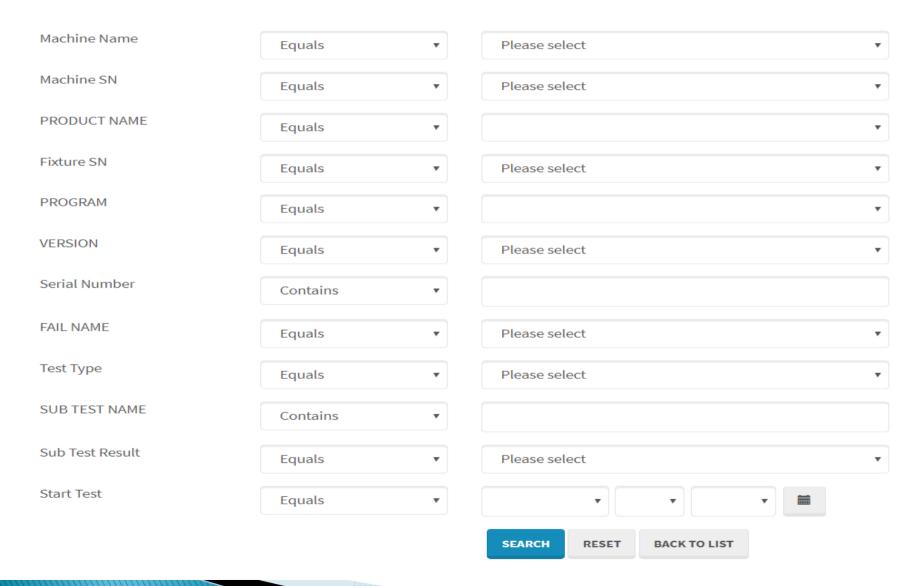


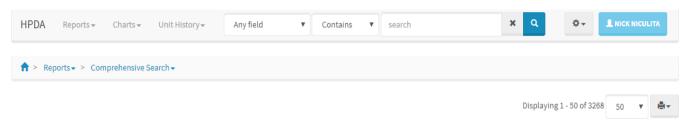




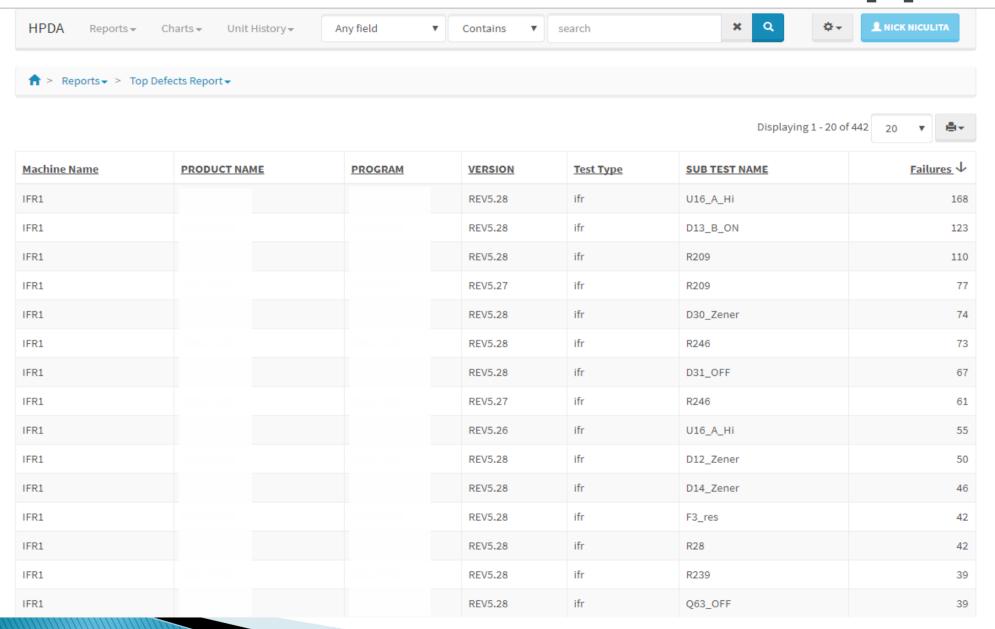


Comprehensive Search - Advanced search





Machine Name	Machine SN	PRODUCT NAME	<u>Fixture SN</u>	PROGRAM	VERSION	Operator ID	<u>Serial Number</u>	FAIL NAME	<u>Test Type</u>	SUB TEST NAME	Sub Test Result	<u>Duration</u>	Start Test	Measurement	Nominal Value	<u>High Value</u>	<u>Low Value</u>
IFR1					REV5.26		170011	Uncategorized Failure	ifr	Q64_GS_Cap	Hi	55.00	5/4/2017	6.13281e-09	0	6e-09	4e-09
IFR1					REV5.26		170020	Uncategorized Failure	ifr	U34_44	Hi	55.00	5/4/2017	1.16374	0	0.84	0.79
IFR1					REV5.26		170020	Uncategorized Failure	ifr	U34_44	Hi	55.00	5/4/2017	1.16374	0	0.84	0.79
IFR1					REV5.26		170054	Uncategorized Failure	ifr	+VBATT_Hi_AfterChrgStsB	Lo	125.00	5/4/2017	0.204935	0	17.64	15.96
IFR1					REV5.26		170020	Uncategorized Failure	ifr	U34_44	Hi	55.00	5/4/2017	1.16399	0	0.84	0.79
IFR1					REV5.26		170020	Uncategorized Failure	ifr	U34_44	Hi	56.00	5/4/2017	1.16374	0	0.84	0.79
IFR1					REV5.26		170059	Uncategorized Failure	ifr	L6_res	Lo	54.00	5/4/2017	0.0289661	0	0.15	0.05
IFR1					REV5.26		170059	Uncategorized Failure	ifr	L6_res	Lo	55.00	5/4/2017	0.0288443	0	0.15	0.05
IFR1					REV5.26		170041	Uncategorized Failure	ifr	C231	Lo	54.00	5/4/2017	1.19824e-09	0	1.12e-07	8.8e-08
IFR1					REV5.26		170004	Uncategorized Failure	ifr	U16_A_Hi	Lo	123.00	5/4/2017	0.898522	0	5.5	0.9
IFR1					REV5.26		170010	Uncategorized Failure	ifr	+VBATT_Hi_AfterChrgStsB	Lo	124.00	5/4/2017	0.204935	0	17.64	15.96
IFR1					REV5.26		170029	Uncategorized Failure	ifr	Q79_B_ON	Ні	54.00	5/4/2017	0	0	0.2	0
IFR1					REV5.26		170029	Uncategorized Failure	ifr	Q79_B_ON	Hi	55.00	5/4/2017	0	0	0.2	0



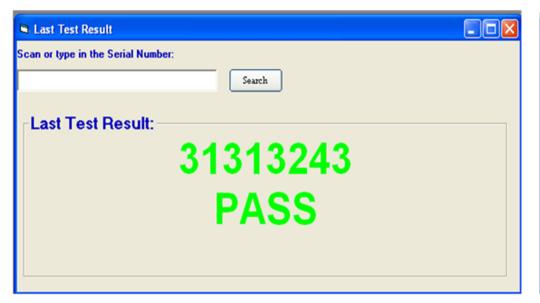
NS-HPDCA: HPDA

- Check the video below for more details about HPDA
 - https://youtu.be/wcwfMPhD-4w

NS-HPDCA: Last Test Result

- LTR checks the last test results for a serial number of any PCBA tested at ICT
- If last test was a FAIL or board was not tested at all, application will warn the operator with a clear message
- Monitor your "Last Test Result" at FQC (Final Quality Control) to make sure that what is shipped out has passed the test.

NS-HPDCA: Last Test Result





■ Last Test Result	
Scan or type in the Serial Number:	
Search	
Last Test Result:	
3900001	
3300001	
NOT TESTED!	
NOT ILSTED:	

NS-HPDCA: Demo Available

- For a DEMO
 - Please contact us at <u>customDB@nicks-software.com</u>
 - We offer a fully functional DEMO valid for 30 days
 - We also help with installation and configuration, if needed
 - We'll get you going quickly, via remote access

NS-HPDCA: Pricing

- HPDCA offers a powerful suite of tools for analysing the ICTs
- HPDCA offers for better line supervision
- HPDCA offers reports for more in depth engineering analysis
- HPDCA offers a well organized and easily accessible storage solution for all the relevant data contained in the log files
- HPDCA simply improves PCBAs status visibility during manufacturing
- For RFQ contact us at:
 - <u>customDB@nicks-software.com</u>
- For more details visit us at:
 - https://custom-database-software-development.com.au/
 - Or
 - https://nicks-software.com/

Thank you!



