Keysight x1149 Boundary Scan Analyzer
Software Release 2.2.0.56

System Requirement

Release Date	April 30, 2024
Platform	Windows 10 Professional (64-bit)
	Windows 11 Professional (64-bit)
	Windows 11 Enterprise (64-bit)
	In addition, ensure that all Windows updates are installed.
Hardware	Processor : Core Intel Pentium® 4 or better (minimum 1.8 GHz)
	Memory : Recommended 16 GB RAM (minimum 8 GB RAM)
	Disk Space : Minimum 10 GB on the installation drive (can be Any drive), plus 1 GB on C: drive.
Display Properties	Minimum Screen Resolution : 1024 x 768 (1600x900 – R&D Verified)
	Color Quality : Minimum 16-bit
Language Settings	English (United States)
	Chinese (Simplified)
License	M6800B x1149 Test Development License Bundle
	M6801B x1149 Run-time License Bundle
	M6802B x1149 1687-2014 Development License
	M6803B x1149 1687-2014 Run-time License
	M6804B x1149 Result Analyzer License
	M6806B x1149 Development Only Software Upgrade 2.2 License
	M6813B x1149 Run-time Only Software Upgrade 2.2 License
	M6815B x1149 Test Development License (Perpetual)
	M6817B x1149 Base License; 2x Controller
	M6816B x1149 Base License; 4x Controller

Dear Valued Customer,

Keysight x1149 Software release 2.2.0.56 Release Notes

Keysight Technologies is pleased to introduce the latest software release 2.2.0.56 for x1149 Boundary Scan Analyzer. This release comes with new features and tools added to enhance your experience in the development, debug, and production execution of tests in line with IEEE 1149.1-2013 and IEEE 1149.6-2015 Standards for Printed Circuit Board Assembly (PCBA) with Boundary Scan devices. The objective is to have the flexible cost while achieving the best Boundary Scan coverage at all levels of your product life cycle while enhancing performance and memory usage with the new release of 64-bit Windows application.

Keysight x1149 Migration to 64-Bit Windows Application

- Supports 64-bit Windows application to optimize performance and memory usage.
- Supports migration of 32-bit .absp conversion, board file upgrade and test generation to 64-bit x1149 application.

Single BSDL for Integrity Test

- Supports utilization of BSDL file to generate integrity test to ensure the successful communication between DUT and x1149 application.

New Light Mode for x1149 Interface

- Allows to switch between light mode and dark mode in x1149 interface.

Read a summary of the above and other new features added into this power-packed new release. For up-to-date information, please visit http://www.keysight.com/find/x1149. We appreciate your ongoing support and look forward to providing you with more value-added features as we continue to develop this x1149 platform.

Yours faithfully,

Yee May Koh

Product Manager

Keysight Technologies

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What's New in Keysight x1149 Boundary Scan Analyzer 2.2.0.56 Software Release

The x1149 Boundary Scan Analyzer 2.2.0.56 Software Release provides the following enhancement and new features to ensure the success of Boundary Scan test at all product life cycle from Pre-PCB Layout, Proto Built, NPI to Production Run.

- **Keysight x1149 Migration to 64-Bit Windows Application**
  - Supports 64-bit Windows application to optimize performance and memory usage.
  - Supports migration of 32-bit .absp conversion, board file upgrade and test generation to 64-bit x1149 application.

- **Single BSDL for Integrity Test**
  - Supports utilization of bsdl file to generate integrity test to ensure the successful communication between DUT and x1149 application.

- **New Light Mode for x1149 Interface**
  - Allows to switch between light mode and dark mode in x1149 interface.

Other New Features

- Keysight x1149 data log path setting at project level.

- DIMM socket pin number when test fail

Default User IDs

- The default password has been updated.

User ID	Group	Password
Admin	Admin	x1149BSA1
Engineer	Engineer	x1149BSA1
Operator	Operator	x1149BSA1

Compatibility Statement

- Keysight x1149 Boundary Scan Analyzer Compatibility Matrix

x1149 Controller OS Version	x1149 1.3.0.0 Software	x1149 1.3.1.0 Patch Release	x1149 1.4.0.0 Software	x1149 1.4.1.0 Patch Release	x1149 1.5.0.0 Software	x1149 1.6.0.0 Software	x1149 1.6.1.0 Patch Release	x1149 1.7.0.0 Software	x1149 1.7.1.0 Patch Release	x1149 2.0.0.0 Software	x1149 2.1.0.0 Software	x1149 2.2.0.56 Software
A 3.7	x	x	x	x	x	x	x	x	x	x	x	x
A 3.8	√	√	√	√	x	x	x	x	x	x	x	x
A 3.9	√	√	√	√	x	x	x	x	x	x	x	x
A 4.0	√	√	√	√	x	x	x	x	x	x	x	x
A 4.1	√	√	√	√	√	√	√	√	√	x	x	x
A 4.2	x	x	√	√	√	√	√	√	√	√	√	√

Project (.absp) Compatibility

1. Project (.absp) file is backward compatible. Project file created or opened in earlier Software Revision can be opened and used in Software Revision 2.2.0.56.

2. Auto Convert or Update.absp/.absl developed in older x1149 software versions
   - The 2.2.0.56 release will automatically convert or update absp and absl from version 1.3.x.y onwards to version 2.2.0.56 and backup the original absp and absl files.
   - Conversion automatically starts when a 1.3.x.y absp or absl is opened in x1149 2.2.0.56 Development GUI.

3. Backup file name for 1.3.x.y to 2.2.0.56:
   - The original absp or absl file will be backed up as `<filename>_<YYYYMMDDHHMMSS>_<ProductNum>_<(Version)(SubVersion)>.absp` :
     - Example: For a project "digital-plane.absp"
     - Original project file will be saved into "digital-plane_20230801083215_0210_1314.absp"
     - The "digital-plane.absp" will be automatically converted to 2.2.0.56 version format.

4. Note:
   - If conversion passes, project is automatically opened, and user will be prompted to do test regeneration. Click cancel if you wish to keep existing tests.
   - After conversion passes and project is opened successfully, always check the required action status found on bottom right corner.
   - Project files in versions earlier than 1.3.x.y are not supported in the auto conversion and backup.
   - **Previous version of BSDL will open and run without parsing in the new Software Release 2.2.0.56 unless been modified.**

Programming Compatibility

Programming tests created with software versions 1.3.0.0 or 1.3.1.0 (dated before Apr'2015) are not compatible with software version 2.2.0.56. Users are required to delete the programming test and regenerate using 2.2.0.56 software.

- For project that have been developed in the environment as mentioned above, if required action is 'Validate Data', this implies there are data validation errors found in this project.

  - **Note: Click on Project Explorer>Chain>Reconfigure Chain to see error messages, review message and fix library accordingly.**

Enhancements/Defects Fixed

CR#	Title
BBOX-860	Integrity test from Singulated BSCAN device based on BSDL
BBOX-916	Resolve critical, high license and security risks for x1149 2.1.0.0
BBOX-628	Unable to generate x1149 tests
BBOX-1080	Singulated BSDL feature compiled and saved
BBOX-827	Handle attribute extension name in user defined VHDL package
BBOX-863	No support for user package for STD_1149_1_1990.all in new parser
BBOX-1079	Compliance pattern pins falls under power in pin library
BBOX-1069	View Node in Test stops when reaching memory limit
BBOX-1043	Investigate on empty device list
BBOX-842	Enable light UI option for x1149
BBOX-1042	Unpleasant view on light theme UI hardware info header of x1149 2.2.0.27
BBOX-634	Blank data shown in test editor after pretest data changed
BBOX-1075	No shown of devices and pins when select the node
BBOX-1066	Run Auto-Debug failure on Bravo CET 64-Bits
BBOX-1053	CET test generation failure on J6 and J12 on TireKick test
BBOX-1051	Bug fix for x1149-32
BBOX-1073	X1149 Wrapper dll runs in i3070 BTI failed after migrated to MS Sqlite
BBOX-1086	Unable to launch x1149 build 2.2.0.53
BBOX-1044	Unable to launch "Keysight.Absa.x1149WrapperApp.exe" after clicking OK
BBOX-1050	Bug fix for x1149-30
BBOX-547	Unable to edit device pin in Merge Devices Window
BBOX-628	Unable to generate x1149 tests
BBOX-1075	No shown of devices and pins when select the node

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