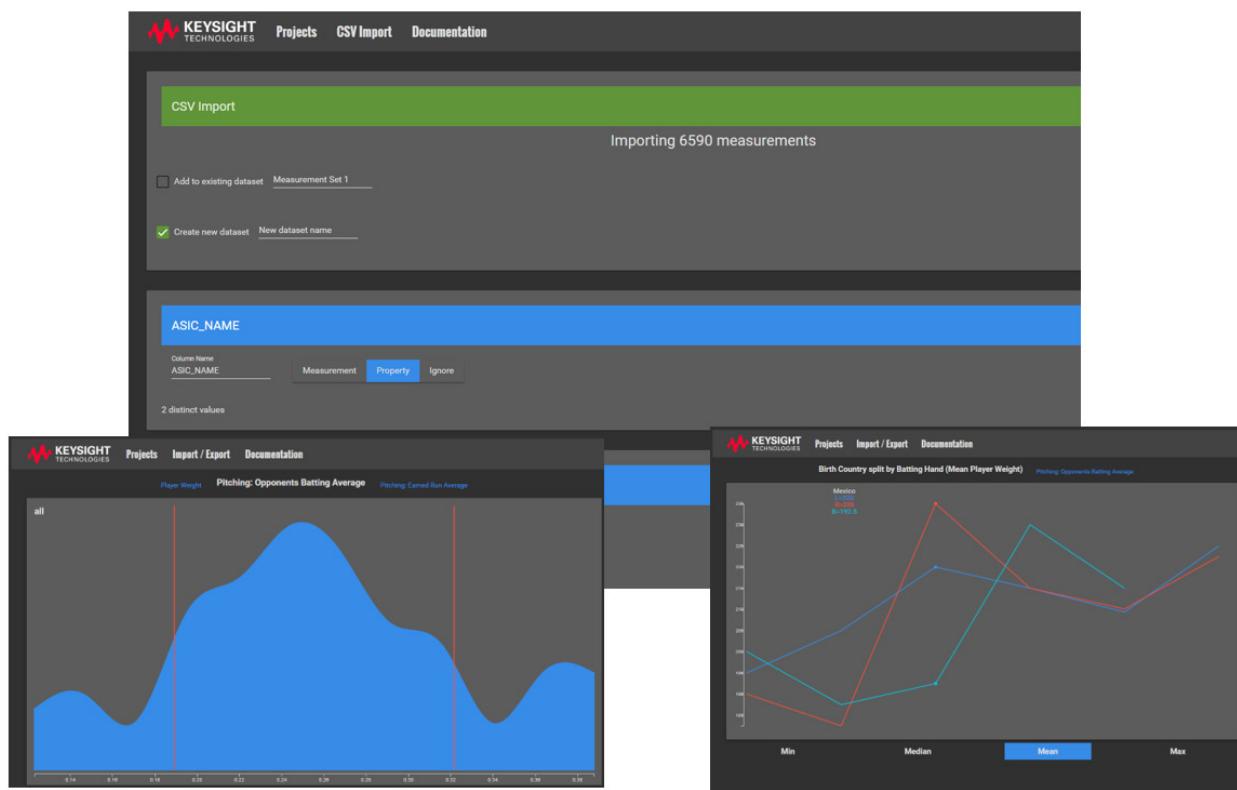


# Keysight N8844A

## Data Analytics Web Service Software

### Data Sheet



Unlocking Measurement Insights

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# Introduction

The Keysight Technologies, Inc. Data Analytics Web Service software provides an interface that allows users to import their test data to a data repository server. It protects the data repository server from data corruption and allows version control. It also allows for a simple interface which abstracts away the implementation details. The N8844A Data Analytics Web Service software supports multiple data sources and also a wide range of data import clients.

## Key features

- Supports multiple data sources
  - Infiniium Compliance Application Software
  - Keysight ADS Simulation input (via Infiniium Offline software)
  - Keysight data sources (measurement result from Keysight test equipment)
  - Non-Keysight data sources (measurement result from other vendor test equipment or customized data source from user test environment)
- Supports a wide range of clients for data import
  - Infiniium Compliance software framework
  - Web CSV import tool
  - C# Import program
  - Python Import program
- Data can be retrieved and analyzed with the KS8400A Test Automation Platform software or the Web tool reference application included in the N8844A Data Analytics Web Service software
- Data can be retrieved offline for result viewing

## Setting up the N8844A Data Analytics Web Service Software

The user would set up a web server that hosts the N8844A Data Analytics Web Service software and a data repository server that hosts the data repository infrastructure with either MySQL, SQL Server or Oracle data repository management system. It is recommended that the web and data repository servers are setup separately to ensure scalability, performance and data repository security. The user is responsible to provide backup, restore and replication of the data repository server. It is recommended that the user set up the servers through their Information Technology (IT) department.

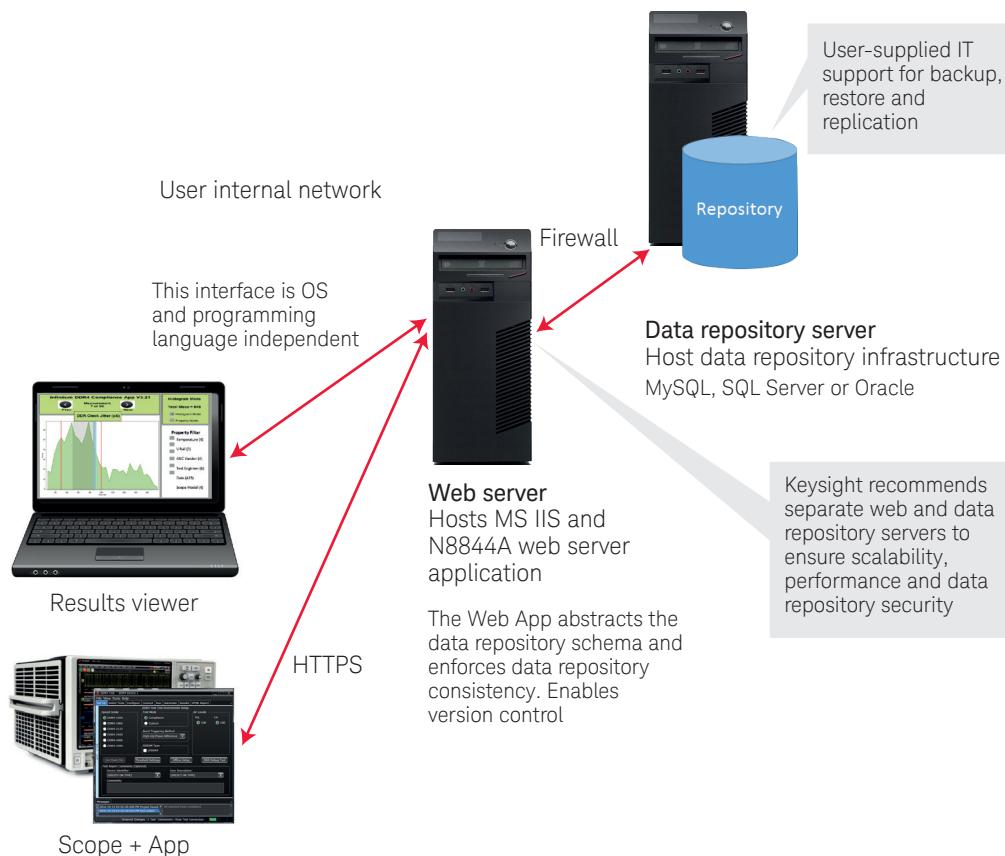


Figure 1. The N8844A Data Analytics Web Server application software and the Data Repository Server is setup separately. The user will utilize the N8844A web service application to import data to the data repository.

## Data Sources and Data Import

The Infiniium N6462A-5FP DDR4 and LPDDR4 data analytics web service software provides an interface that allows the user to export their test result directly to the data repository server via a URL. The user would first configure the compliance application software, run the test suite and then review the measurement results in the Infiniium user interface. If the results are deemed valid, the user would export the test result to the data repository. In this use model, the user would need to set up the N8844A Data Analytics Web Service software.

The second use model allows data viewing for Keysight Advanced Design System (ADS) users. The W2351EP DDR4 Compliance Test Bench outputs simulated waveforms which the user can use to run on the Infiniium N6462A-1FP DDR4 and LPDDR4 compliance test software in offline mode.

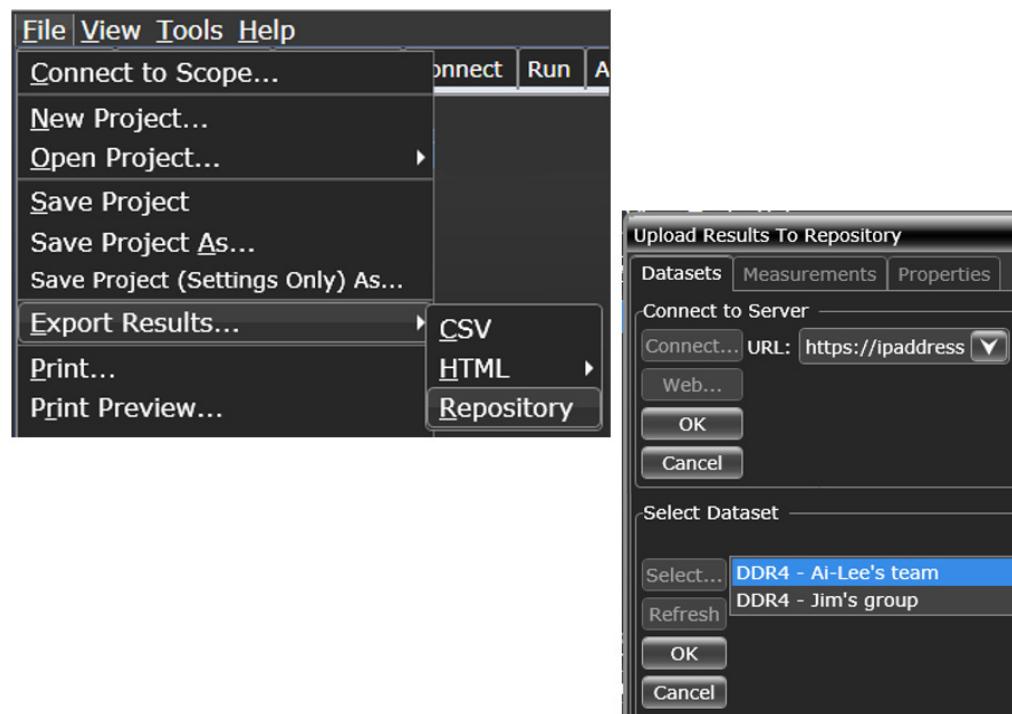


Figure 2. Infiniium DDR4 and LPDDR4 Compliance Test Software with Data Analytics option. The user exports the compliance test result to the repository via an URL address that connects to the server.

The N8844A Data Analytics Web Server application software enables users to upload test results from other sources to the data repository. The data source can come from Keysight test equipment such as the oscilloscopes. The software also supports non-Keysight test equipment measurement data as well as other user defined measurement methods. The user would collect the measurement result and save it into a .CSV format. Users can use the Web CSV import tool (included in the N8844A Data Analytics Web Server application software) to import the data to the repository. The .CSV data import tool allows users to specify the number of measurements and properties available in the .CSV format test result. If the user chooses not to use .CSV format, the N8844A software includes C# and Python import program reference applications to help the user script a customized data import tool.

## Results Viewer

Users can retrieve the test results from the data repository server to be viewed with the KS8400A Results Viewer software. The KS8400A Results Viewer software allows the user to see their compiled measurement result in histogram or line mode. The plots can be filtered by properties. Examples of properties include temperature, ASIC version, work bench, date and equipment model. The user can navigate to each measurement taken. Another alternative is to view the test result with the N8844A Web tool reference application. The web tool is included as part of the N8844A Data Analytics Web Service software.

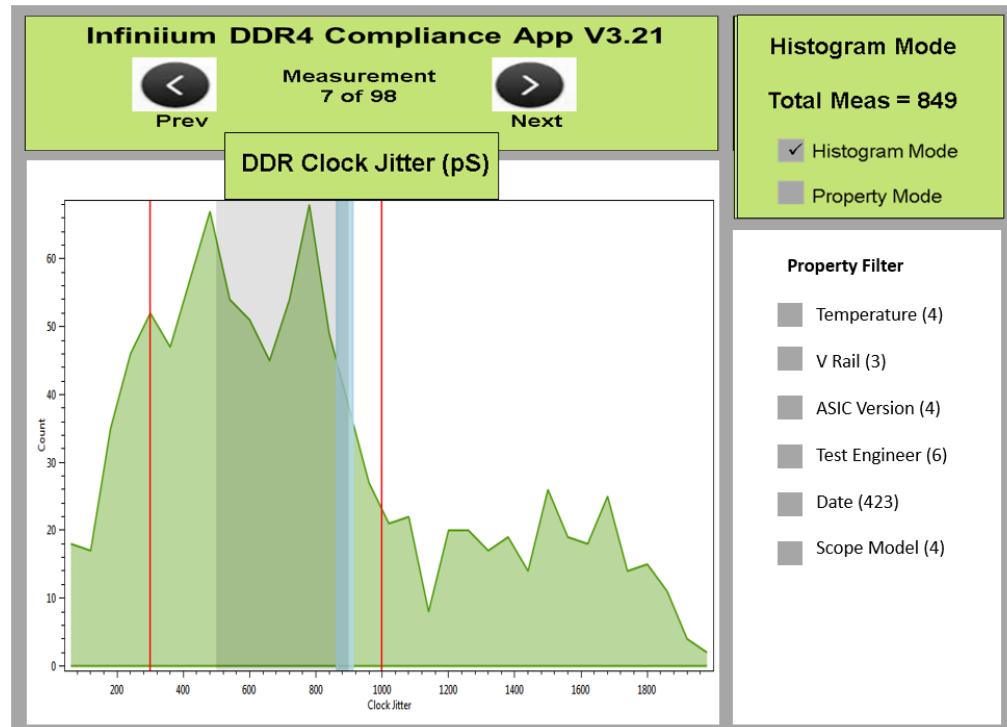


Figure 3. KS8400A Results Viewer software reveals the plot of a DDR4 clock jitter measurement in histogram mode. The blue bar indicates the last run of test result exported to the data repository and the red lines show the upper and lower test limits of the measurement as specified in the JEDEC specification.

## Ordering Information

The configuration below is for DDR4 and LPDDR4 Compliance Test Software users. The user will need to order the N6462A DDR4 and LPDDR4 compliance test software with option -5FP and N8844A Data Analytics Web Service software. Users can use the KS8400A Test Automation Platform, Developer's System software or the web tool reference application included in the N8844A software for results viewing.

### Software options

Application	License type	Infiniium V-Series/Z-Series	Infiniium S- Series	Infiniium 90000 X-Series
DDR4 and LPDDR4 Compliance Test Software (required)	Fixed	Factory-installed	N6462A-1FP	DS090000-058
		User-installed	N6462A-1FP	N6462A-1FP
	Floating	Transportable	N6462A-1TP	N6462A-1TP
		Server based	N5435A-087	N5435A-087
DDR4 and LPDDR4 Data Analytics Web Service Software (required)	Fixed	Factory-installed	N6462A-5FP	DS090000-904
		User-installed	N6462A-5FP	N6462A-5FP
	Floating	Transportable	N6462A-5TP	N6462A-5TP
		Server based	N5435A-108	N5435A-108

Note: Please see N6462A data sheet ([www.keysight.com/find/n6462a](http://www.keysight.com/find/n6462a)) for other software requirements.

### N8844A web service software (required)

Application	License type	Installed on a web server
Data Analytics Web Service Software (1 license)	Fixed	Factory-installed
		User-installed
	Floating	N8844A-1TP
		Server based
Data Analytics Web Service Software (15 licenses)	Fixed	Factory-installed
		User-installed
	Floating	N8844A-4TP
		Server based

### The KS8400A software works on all Infiniium oscilloscopes

Application	License type	Installed on a web server
Test Automation Platform, Developer's System (optional)	Fixed	KS8400A-1FP
		KS8400A-1FY
	Floating	KS8400A-1NP
		KS8400A-1NY
Transportable	Transportable	KS8400A-1TP
	12 months transportable license	KS8400A-1TY

## Ordering Information (Continued)

The below configuration works with .CSV or any other test result format. The user will need to order N8844A Data Analytics Web Service software which would be installed on the web server. The KS8400A Test Automation Platform, the Developer's System software, or the web tool reference application (included in the N8844A software) can be used to view results.

### Software options

Application	License type	Installed on a web server
Data Analytics Web Service Software (1 license)	Fixed	Factory-installed
		User-installed
	Floating	Transportable
		Server based
Data Analytics Web Service Software (15 licenses)	Fixed	Factory-installed
		User-installed
	Floating	Transportable
		Server based

### The KS8400A software (optional)

Application	License type	Installed on PC for results viewing
Test Automation Platform, Developer's System	Fixed	KS8400A-1FP
		KS8400A-1FY
	Floating	KS8400A-1NP
		KS8400A-1NY
	Transportable	KS8400A-1TP
		KS8400A-1TY

### For more information

[www.keysight.com/find/data-analytics](http://www.keysight.com/find/data-analytics)

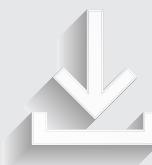
### Related Literature

Publication type	Publication number
N6462A and N6462B DDR4/LPDDR4 Compliance Test Software - Data Sheet	5991-0853EN

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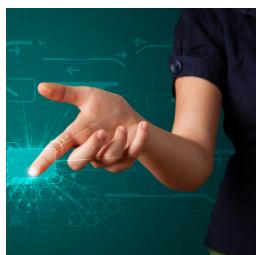
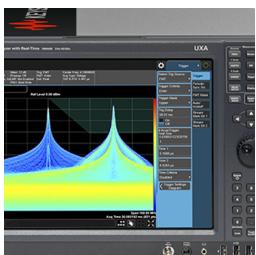


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