

LabWorX

Centralized Test Lab Management Suite

AND
Discover Precision

Increase output and efficiency by transforming a collection of test systems into managed lab

In every automotive test laboratory, more and more emphasis is being put on improving efficiency and output. In order to do both, today's lab manager must address these four major challenges:

- Many tasks that have traditionally been done manually must now be automated by a lab management system.
- This same lab management solution must be able to integrate test cell automation systems from multiple vendors.
- The current test cell utilization must be accurately tracked in order to identify existing inefficiencies and target areas for improvement.
- Large amounts of data must be stored in one central location, with easy but secure access.

A&D's LabWorX addresses all of these issues and more, providing solutions for the integration of any test system, central data storage and retrieval, utilization tracking, and unattended 24/7/365 operation.

The screenshot displays the LabWorX LabCloud Server interface. At the top, there are navigation tabs: Dashboards, Test Systems, Test Data, Utilization, Part Tracker, LabScheduler, Administration, and Help. Below these is a 'Test Data Search' section with a 'Clear Selections' button and a 'Download' button. The main area is a table with columns: Name, Project, End Time, Size, Test System, and Test Engineer. The table contains 12 rows of data, all with 'Administrator' as the Test Engineer. Below the table is a pagination bar showing 'Prev', '1', '2', '3', '4', '5', '...', '48885', '48886', '48887', '48888', 'Next', and '(1-12/586652) Per page: 12, 25, 50, 100'. On the left side, there are filters for 'Filter by Date Range' (Start Date: 01/12/1970, End Date: 06/18/2019), 'File Extensions' (adf, .dat, .mf4, .pdf, .pptx, .txt, .xls), and 'Projects (8611)' (CC21_Demo1_5296, CC21_Demo1_5297, CC21_Demo1_5298, CC21_Demo1_5299, CC22_Demo1_1162, CC22_Demo1_1163, CC22_Demo1_1164, CC22_Demo1_1165, CC22_Demo1_1166, CC22_Demo1_1167, CC22_Demo1_1168).

| Name | Project | End Time | Size | Test System | Test Engineer |
|-------------------------|-----------------|---------------------|-------|---------------|---------------|
| Dmo1Step_29949Trans.dat | XPRJ_Demo1_5664 | 2019/06/18 08:58:49 | 60618 | CLOUDCLIENT22 | Administrator |
| Dmo1Step_29946Trans.dat | XPRJ_Demo1_5664 | 2019/06/18 08:57:44 | 60604 | CLOUDCLIENT22 | Administrator |
| Dmo1Step_29947Trans.dat | XPRJ_Demo1_5664 | 2019/06/18 08:56:38 | 60612 | CLOUDCLIENT22 | Administrator |
| Dmo1Step_29946Trans.dat | XPRJ_Demo1_5664 | 2019/06/18 08:55:33 | 60618 | CLOUDCLIENT22 | Administrator |
| Dmo1Step_29945Trans.dat | XPRJ_Demo1_5664 | 2019/06/18 08:54:28 | 60604 | CLOUDCLIENT22 | Administrator |
| Dmo1Step_29944Trans.dat | XPRJ_Demo1_5664 | 2019/06/18 08:53:22 | 60612 | CLOUDCLIENT22 | Administrator |
| Dmo1Step_29943Trans.dat | XPRJ_Demo1_5664 | 2019/06/18 08:52:17 | 60618 | CLOUDCLIENT22 | Administrator |
| Dmo1Step_29942Trans.dat | XPRJ_Demo1_5664 | 2019/06/18 08:51:12 | 60604 | CLOUDCLIENT22 | Administrator |
| Dmo1Step_29941Trans.dat | XPRJ_Demo1_5664 | 2019/06/18 08:50:06 | 60612 | CLOUDCLIENT22 | Administrator |
| Dmo1Step_29940Trans.dat | XPRJ_Demo1_5664 | 2019/06/18 08:49:01 | 60618 | CLOUDCLIENT22 | Administrator |
| Dmo1Step_29939Trans.dat | XPRJ_Demo1_5664 | 2019/06/18 08:47:56 | 60604 | CLOUDCLIENT22 | Administrator |
| Dmo1Step_29938Trans.dat | XPRJ_Demo1_5664 | 2019/06/18 08:46:50 | 60612 | CLOUDCLIENT22 | Administrator |

A&D's LabWorX provides solutions for the integration of any test system, central data storage and retrieval, utilization tracking and reporting, and 24/7/365 operation.

Benefits

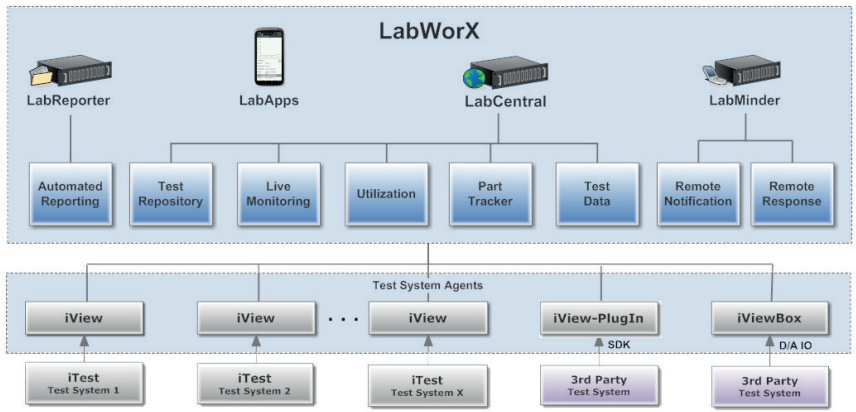
- Increased lab efficiency and output through automation, integration and optimized data management
- Scalable to any lab size; grows with the needs of the lab
- Remote monitoring and notification capabilities allowing for reduced overhead

Features

- Centralized data storage and retrieval capabilities for managing multiple terabytes of data
- Seamless integration of test systems from multiple vendors
- Configurable dashboards providing customized views to all test systems
- Automated test cell utilization tracking and reporting



System Architecture



Standard LabWorX Components

LabCentral

The centralized server that provides data storage and retrieval, test system utilization tracking, test request scheduling, as well as live monitoring of any system through configurable dashboards.

LabMinder

An automated notification and response system that allows for 24/7/365 unattended operation; the system can be configured to provide specific responses when certain errors occur, and notify designated personnel of significant events by text or email.

LabReporter

An automated report generator that formats incoming data and makes it available via the LabCentral server.

LabApps

Android-compatible apps that provide notification and response capabilities via hand-held devices.

Test System Agent

The Test System Agent is an interface package required for integrating any test system with LabWorX. iView is included with any A&D's software, while an iView plug-in is available for use with standard third-party test systems. iViewBox is an IO package that provides the interface to third-party hardware-only test systems.

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