



## VeSion™ R-Server

### Cloud-Based Workflow and Asset Management

VeSion R-Server is a centralized cloud-based asset and workflow management system that allows efficient collection, indexing and processing of large amounts of test results and KPIs generated by field installation and maintenance crews.

### Platform Highlights

- Provides a complete view of your field test equipment assets and field technicians. Quickly determine problem areas and assure compliance to methods and procedures.
- Supports: Fiber Optics, RF, CaTV, Transport, Ethernet, DSL test results and key performance indicators (KPI)
- Tamper-proof operation: Lock profiles, registration, date, and time on test sets
  - Consistent test environment: Assures all test sets are running approved software versions
  - Org Charts: Distribute and manage assets by regions, districts or groups, with multiple levels of visibility
- Theft-deterrent function can activate "time bomb" to disable misplaced assets (test sets)
- Features a dynamic dashboard that allows users to easily see the results of thousands of tests in graphical format
- Easily change and move widgets on the dashboard to see important information at a glance
  - See PASS/FAIL rates and test set usage at a glance
- Monitor and manage all your VeEX test set fleet from a central location.
- Create profiles and organizations from a central location and spread them to technicians in the field
- Seamless integration with job ticketing and work order management systems

### Key Features

- Cloud-based – one system platform
- Dynamic dashboard that can be configured to display specific widgets and filtered by organization
- Server management: manage test sets, send alert emails, compile reports and billing, and set geolocation data
- Profile management: create, delete, assign profiles and locators to specific organizations or all test sets
- Test set management: approve, revoke, and mark test sets in inventory or maintenance (RMA) as stolen
- Organization management: create regions, districts, and systems to neatly organize test sets/results/profiles
- Dedicated training material: upload documents and videos to assist technicians with testing needs and common questions
- Results section features easy to use filters to find any combination of results
- ReVeal™, search, performance, V-TEST, and FCC Pop software wizards make finding results and compiling reports a breeze
- Workforce Wiz allows managers to upload and assign jobs, as well as automatically close jobs once testing results are uploaded

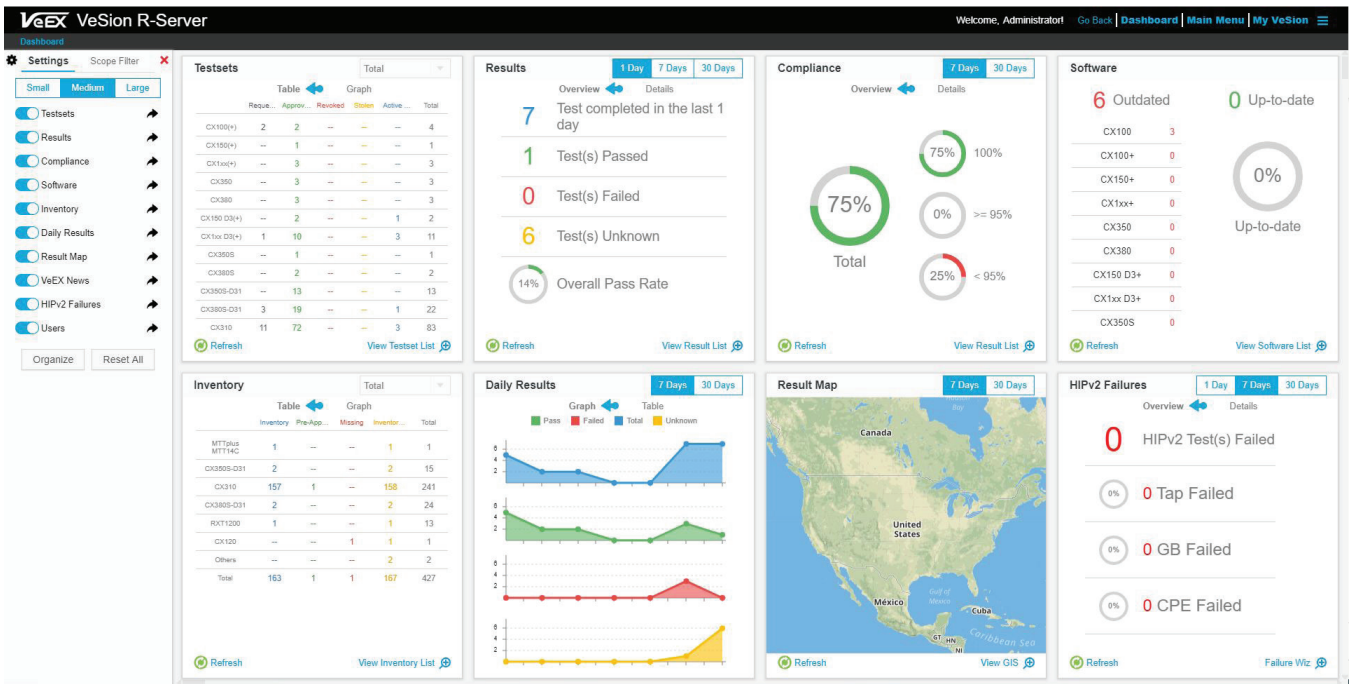
# Introduction

A VeSion-centric cloud platform, R-Server is a complete asset management system to quickly and easily view statistics, find problem areas, and track test sets/job performance for centralized engineers, managers, and field technicians. R-Server prioritizes organization, navigation, and speed as key characteristics. This provides administrators with a detailed overview of all regions in seconds and allows managers to focus on their own regions, districts, and/or systems.

For technicians, it provides a central system to upload results and download profiles. Supervisors can upload test parameters and compile it into a profile. Technicians can download this profile with all parameters preset for a quick and error-free testing experience. Once the test is carried out, the technician can upload the result to R-Server, which stores and protects the data. No need to worry about losing test results ever again.

## Dashboard

R-Server's dashboard features snap-lock widgets that can be individually configured to show all information or specific key areas and statistics.



Quickly filter views by specific **Regions**, **Districts**, and/or **Systems** with the Organization Chart Scope filter.



## Server Management

Configure email server settings, report function, billing system, workforce, and more. Admin mode provides total control over test set inventory with options to lock profiles, date and time, registration status, and set a time bomb.

The screenshot shows the 'Server Management' configuration page in the VeSion R-Server Admin interface. The page includes a navigation bar with 'Main Menu', 'Manage', and 'Server'. The main content area contains several settings:

- Enable:** A toggle switch that is currently turned on.
- Lock Down:** A toggle switch that is currently turned on. Below it, a text box contains the message: "Will lock all testset profiles registered to the server".
- Date & Time Lock:** A toggle switch that is currently turned on. Below it, a text box contains the message: "Date & Time of every testset will be synchronized to the server and cannot be adjusted on the units. This function prevents users from manipulating the date and time of a test which ensures a correct time stamp for measurement results."
- Time Bomb:** A toggle switch that is currently turned off. Below it, a text box contains the message: "If the test set is not connected to the server for a certain number of days, the test set will be deactivated, and the following error message will be displayed". Below this is a larger text input field for the message, followed by a numeric input field set to '1' with the label 'Days (0-100)'. A note below the input says "Message(should be no more than 200 characters with spaces)".
- Lock Registration:** A toggle switch that is currently turned off. Below it, a text box contains the message: "Will lock registration status of the testset to this server. This function prevents a user from unregistering from the server."
- 24-Hour Registration Bomb:** A toggle switch that is currently turned off. Below it, a text box contains the message: "Will reset the Tech ID, Tech Name, Company, and Supervisor ID of any approved test sets after 24 hours. This function let the user change the test set information, everyday, without having to re-approve/re-register the test set with the server."
- Lock Tech ID:** A toggle switch that is currently turned off. Below it, a text box contains the message: "Will lock the Tech ID of the test set. This function is used in conjunction with the 24-hour registration bomb to change all the test set information, except for the Tech ID."

At the bottom of the settings area, there are 'Refresh' and 'Save' buttons.

## Organizational Chart

Create Regions, Districts, and Systems within the server to organize test sets, profiles, results, and supervisors in a logical hierarchy.

The screenshot shows the 'Organizational Chart' page in the VeSion R-Server Admin interface. The page includes a navigation bar with 'Main Menu', 'Manage', and 'Org Chart'. The main content area displays a hierarchical structure:

- Region:** A list containing 'Atlanta', 'Region', 'VeEX', and 'VeEX Fremont'. The 'VeEX' item is highlighted in blue.
- District:** A list containing 'Fremont'.
- System:** A list containing 'Test System'.
- Time Zone Delta:** A list containing '0'.

At the bottom of each column, there are action buttons: '+ Add', 'E Edit', 'X Delete', and 'M Move'.

### Inventory Management

The inventory management system enables managers to pre-approve and track VeEX test sets. Pre-approving lets supervisors input all information needed into a test set before the technician receives it. Technicians simply need to connect to R-Server to automatically download the preset information to the test set. Users can also import CSV purchase orders into inventory and R-Server will automatically populate purchased test sets in the inventory for easy tracking. Check warranty and create RMA requests easily while keeping track of product reparation through up-to-date statuses.

VeEX VeSion R-Server													Welcome, Administrator! Logout Dashboard Main Menu My VeSion		
Main Menu > Manage > Inventory Management													VeEX Others RMA Accessories		
Type	Serial Number	CM MAC Add...	CM MAC Add...	Tech ID	Tech Name	Company	Location	Supervisor ID	Org Chart	Status					
<input type="checkbox"/>	CX310	1 TADA01QD91016g	00-D0-DD-61-78-A7	19509	jisoo	veex		7788	R SK	D Califo...	S Bears	Inv. (A) (M) [E] [X]			
<input type="checkbox"/>	CX310	2 TASB01SA114328		cx310	Left	veex	2701 Daniels St., Madison, WI, U SA	josh	R VeEX	D Frem...	S Josh	Inv. (A) (M) [E] [X]			
<input type="checkbox"/>	CX350S-D31	TE9A00PC612587	00-D0-DD-61-3E-BC	1014	dcor	veex		DC1014	R VeEX	D Frem...	S Coro...	Inv. (A) (M) [E] [X]			
<input type="checkbox"/>	CX350S-D31	TE9B00PB310851	00-00-00-00-00-00	1009	Terence Leong	veex		7788	R SK	D Califo...	S Bears	Inv. (A) (M) [E] [X]			
<input type="checkbox"/>	CX350S-D31	TE9B00PB711311			DCOR	VEEX		DC1014	R VeEX	D Frem...	S Coro...	Inv. (A) (M) [E] [X]			
<input type="checkbox"/>	RXT1200	TS2E02RA012433	00-00-00-00-00-00	x1004	ldefonso Polo	veex.inc.hq		7788	R SK	D Califo...	S Bears	Inv. (A) (M) [E] [X]			

Select All  Clear All  Clear Filter  Refresh

[Inventory](#) [Pre-Approve](#) [Missing](#) [Change Location](#) [Export CSV](#) [Import CSV](#) [New](#) [Edit](#) [Delete](#)

### Results List

Technicians can upload test results to a central protected server. Once on R-Server, supervisors can view the data, download a CSV/PDF copy, and see the status of tests at a glance. R-Server also provides a robust filtering system to quickly and easily find specific or groups of testing results.

VeEX VeSion R-Server													Welcome, Administrator! Go Back Dashboard Main Menu My VeSion		
Main Menu > Result & Report > Results													Testset Information Results View Locations View Advanced View		
Job ID	Account	Node ID	Result Type	Date Uploaded	Date Measured	Type	Serial Number	Org Chart	Tech ID	Company	Status				
<input type="checkbox"/>	None	None	V100 CX System Scan	11/5/2019 10:40:20 AM	11/5/2019 10:11:50 AM	CX1xx D3+	VCMC000O211886	R SK	D California	S Bears	1	veex	Unknown (E) (P) [E] [X]		
<input type="checkbox"/>	None	None	V100 CX System Scan	11/5/2019 10:40:21 AM	11/5/2019 10:33:02 AM	CX1xx D3+	VCMC000O211886	R SK	D California	S Bears	1	veex	Unknown (E) (P) [E] [X]		
<input type="checkbox"/>	None	None	V100 CX System Scan	11/5/2019 10:40:20 AM	11/5/2019 10:11:50 AM	CX1xx D3+	VCMC000O211886	R SK	D California	S Bears	1	veex	Unknown (E) (P) [E] [X]		
<input type="checkbox"/>	None	None	V100 CX System Scan	11/5/2019 10:40:21 AM	11/5/2019 10:35:55 AM	CX1xx D3+	VCMC000O211886	R SK	D California	S Bears	1	veex	Unknown (E) (P) [E] [X]		
<input type="checkbox"/>	None	None	V100 CX TIT	11/5/2019 10:40:20 AM	11/5/2019 10:37:00 AM	CX1xx D3+	VCMC000O211886	R SK	D California	S Bears	1	veex	Pass (E) (P) [E] [X]		
<input type="checkbox"/>	None	None	V100 CX System Scan	11/5/2019 10:40:20 AM	11/5/2019 10:11:50 AM	CX1xx D3+	VCMC000O211886	R SK	D California	S Bears	1	veex	Unknown (E) (P) [E] [X]		
<input type="checkbox"/>	None	None	V100 CX System Scan	11/5/2019 10:40:21 AM	11/5/2019 10:23:13 AM	CX1xx D3+	VCMC000O211886	R SK	D California	S Bears	1	veex	Unknown (E) (P) [E] [X]		

Search By All Date 1 Day 11/05/2019 ~ 11/05/2019 Search

Select All  Clear All  Clear Filter  Refresh

[CSV](#) [PDF](#) [View](#) [Delete](#)

### Profiles

Supervisors can pre-configure testing parameters in specific profiles and upload them to R-Server. These profiles can then be downloaded onto test sets and selected by technicians. Once the profile is selected, all testing parameters will be automatically filled-out based on the profile. This allows technicians to run tests based on the latest requirements without having to talk to a supervisor or change any information.

**Add HIP AutoTest V2 - Test\_Profile**

General
Scope

Head Field	Value
Channel Scan Type	Discover (Standard) ▼
Channel Table	Standard_Q256 ▼
Step By Step	<input type="checkbox"/>
2Way Splitter	<input type="checkbox"/>
Ingress Noise Level (dBmV)	-30
Ingress Test Dwell Time (Seconds)	30 ▼
BER	<input checked="" type="checkbox"/>
BER Dwell Time	1 ▼
DOCSIS PRIMARY	87
OFDM PRIMARY	N/A
V-Test: Provider/Mode	Demo ▼
Server URL	Demo URL ▼
# of Engines	1 ▼
PNM Server URL/IP	
Capture CM Config File	<input type="checkbox"/>
Tap	OFF ▼
Ground Block	OFF ▼
Video Outlet/CPE	OPTIONAL ▼
Threshold	SK-Tight ▼

ENCRYPT & SAVE
SAVE
CANCEL

### Software Repository

Supervisors can set the current software version and even allow technicians to perform delta upgrades right on the test set. This keeps technicians up-to-date on the latest releases.

Register	Upload	Download
Server Address	207.141.64.138	
Channel Tables	Current	
Common Profile	Current	
HIP Profile	Current	
HIP Tables	Current	
Spectrum Profile	Current	
Sweep Table(FP)	Current	
Sweep Table(RP)	Current	
Locations	Current	
Software	NEW	
Current Software	01.00.0011-35	
New Software	01.01.0005	

✕
➔

Download

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Some files need to be downloaded.

Tbl: 603AnxB    Loc: SK-HiLo1    TP: Off    2019-02-06 08:49:36



### Software Wizards

R-Server offers ReVeal, Search, Performance, V-TEST, Analysis, Node health, and FCC Pop guided tools to quickly search for specific test outcomes and easily compile reports.

**VeSion R-Server** | Welcome, Administrator! | Logout | Dashboard | Main Menu | My VeSion

Main Menu > Result & Report > ReVeal Wiz

Search Dates: Today (selected), Yesterday, Last Week, Current Week, Last Month, Current Month, Custom Date Range (02/01/2020 - 02/11/2020)

Search Org Chart:  (collapsed)

- REGION Atlanta
- REGION Region
- REGION VeEX
  - DISTRICT Fremont
    - SYSTEM Test System
  - REGION VeEX Fremont

Search Companies:  (collapsed)

Search Results: All (selected), Pass, Failed

CX Series:  Cable Modem,  CX310 Ingress,  HIP,  HIP Multi,  HIP V2,  Installation Check

**VeSion R-Server** | Welcome, Administrator! | Logout | Dashboard | Main Menu | My VeSion

Main Menu > Result & Report > Search Wiz

Search Dates: Today, Yesterday, Last Week, Current Week (selected), Last Month (selected), Current Month (selected), Custom Date Range (02/01/2020 - 02/11/2020)

Search Org Chart:  (expanded)

- REGION Atlanta
- REGION Region
- REGION VeEX
  - DISTRICT Fremont
    - SYSTEM Test System
  - REGION VeEX Fremont
    - DISTRICT Fremont

Search Companies:  (collapsed)

Search Testset/Job ID/Accounts/Technician:  (selected)

Testset:  TECB06RB210859 | Job ID:  test

Account:  | Tech ID:

Search Results: All (selected), Pass, Failed

CX Series:  Cable Modem,  CX310 Ingress,  HIP,  HIP Multi,  HIP V2,  Installation Check



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