VECTOR

Vector Team Services

Product Information

vector.com

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This document presents Vector Team Services concepts and functions. The applications that are run on the SaaS platform and not presented in detail.

Product information and technical data on vLoggerCloud vCDM, vMDM, and CANape is available in separate documents.

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1. Overview

1.1 What is Vector Team Services?

Team Services is Vector's platform for collaboration and data management. It offers a broad portfolio of applications across various technical domains. Team Services comes as Software-as-a-Service. With a few clicks you can set up complex tool chains within minutes.

The applications work seamlessly together and can be easily integrated into your existing tool landscape.

The Software-as-a-Service applications from Team Services cover a wide range of technical application areas:

> **Project Collaboration**: You share CANape-, vSignalyzer and vMeasure projects with your colleagues and modify them collaboratively.
> **vLoggerCloud and vLoggerControlRoom**: You can remotely configure and monitor data loggers and manage fleets of loggers. **vCDM**: You drive calibration data collaboratively to maturity.
> **vMDM**: You manage and analyze measurement data and create reports.
> **NVRAM Endurance Simulation**: You can analyze how the memory cells in flash and NVRAM devices wear out over the lifetime of a device.

You log in to the Team Services web portal, create a workspace for your team or organization, and activate the application you want.

Project Collaboration and the vLoggerCloud service are included in the corresponding tool licenses or device prices. The services can be used up to a data volume of 100 GB at no additional cost. Free trial versions are available for the other applications.

1.2 Benefits

> **More efficient teamwork**: Increase productivity through the seamless exchange of data between applications and users.
> **Cost-effective operation by Vector**: Leave the operation of the application to Vector. As a provider, Vector knows its systems inside out, can standardize operations for many customers and thus operates them efficiently and cost-effectively.
> **Flexible use**: Subscribe to applications as required, scale them flexibly and cancel them when they are no longer needed. Avoid unused investments.
> **Self-service**: Manage workgroups and applications independently in self-service. Respond quickly and flexibly to changing requirements.

1.3 Use Cases

> **Configure data loggers** that are located outside the company network and are difficult to access.
> **Observe loggers** in the field, check selected signals and track the route of the test vehicle on the map view.
> **Manage measurement data** recorded in data loggers, HIL systems or application tools.
> **Aggregate** the data into meaningful **dashboards** and **reports**.
> **Detect anomalies** with the powerful **Data Mining** tools and analyze them in **detail**.
> **Merge** the results of calibration engineers and keep a vast number of **calibration variants** consistent**.**

1.4 Data Locality

> Team Services are available in three regions: Europe (Netherlands), USA and Japan.
> There is a separate instance in Shanghai for the Chinese market, which is customized to the local data protection conditions in terms of its operating model.

1.5 What is included in Team Services?

> Vector deploys the entire cloud infrastructure such as servers, databases and storage so you can share data and collaborate.

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> The applications automatically scale with your load requirements.
> Vector regularly updates the backend infrastructure to ensure system security and functionality.
> Vector takes care of data backup and, if necessary, data recovery.
> The Vector Team Services applications are integrated into Vector's support processes.
> You always have access to the latest version of the application.
> Depending on the applications used and the subscriptions taken out, you will receive a download link for the desktop applications and a license key.

1.6 Security and data protection as the primary goal

Security and data protection are key factors when selecting a software-as-a-service provider.

Vector has several years of experience in operating software-as-a-service applications.

The processing of personal data is conducted in accordance with the European Data Protection Regulation (GDPR). Security is based on measures recommended by international standards and authorities.

Companies have established an assessment process to make cloud services available to business departments in a secure form and according to local regulations. Vector has successfully completed several of these assessments and is happy to support you in collaboration with your IT organization.

Vector Team Services are based on Microsoft Azure infrastructure. This provider's size, global availability and great security focus were decisive reasons for selecting Microsoft Azure.

2. Team Services Concepts

2.1 Platform

Team Services is a software-as-a-service platform for data management, collaboration, and logger management applications. The actual specialist functions are realized by these applications. Team Services ensures operation and access.

Team Services introduces three concepts so that you as a user can use the platform securely and easily: User accounts (Accounts), workspaces (Team Areas) and applications (Apps).

2.2 Account

Every user who wants to interact with Team Services needs an account.

The Team Services account is used to access all applications available on the platform. The account is valid for all Team Areas that you create or to which you are invited. The account is created in self-service via the web form: https://login.teamservices.vector.com/register.

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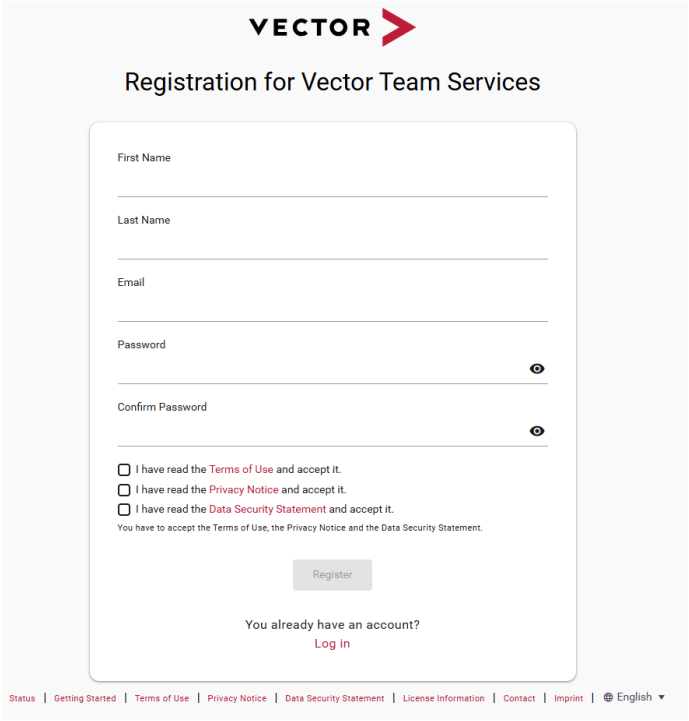


FIGURE 1: Web form to acquire Team Services account.

The email address is the primary identification feature and must be confirmed during registration.

Alternatively, you can also set up single sign-on with your identity provider.

The account is locked if it is not used for 9 months and deleted after one year of inactivity.

Please note that the Team Services account is currently not synchronized with other Vector accounts like for the license or support portal. We will change this in future.

2.3 Team Areas

The collaboration on application data takes place in Team Areas.

Like accounts, Team Areas are created in self-service. The user who likes to start cloud-based collaboration, creates a Team Area. This owner receives administrative permission in this Team Area. The owner user invites collaborators to join the Team Area. The permissions for these users can be restricted or elevated using roles.

Moreover, a single user can also use a Team Area to synchronize data across different devices.

The data within a Team Area is isolated from other Team Areas. Only the creator and users who have been invited and joined the Team Area have access to the data.

The data of the Team Area is also located in a specific region. You are automatically routed to the data center nearest to your current location. But you can also directly address the specific data center.

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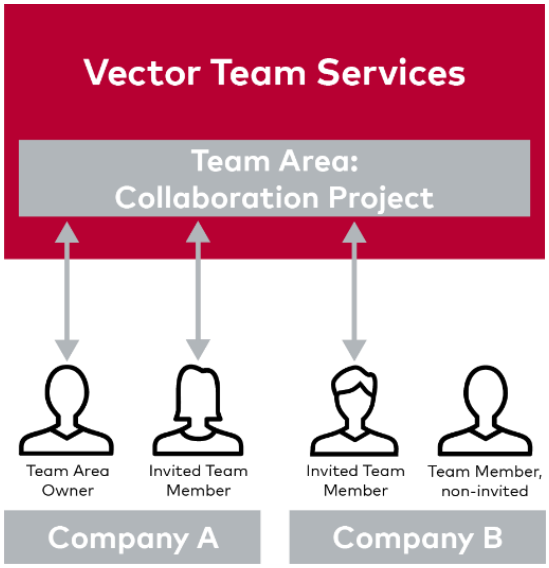


FIGURE 2: Only invited users can access data.

The owner can delete the Team Area anytime. The Team Area is deleted if it is not used for one year.

2.4 Applications

Applications - or shorter apps – contain the actual collaboration and data management functionality.

Some apps are always available, and you can immediately start using them. The front-end functionality is usually integrated in the corresponding Vector desktop tools.

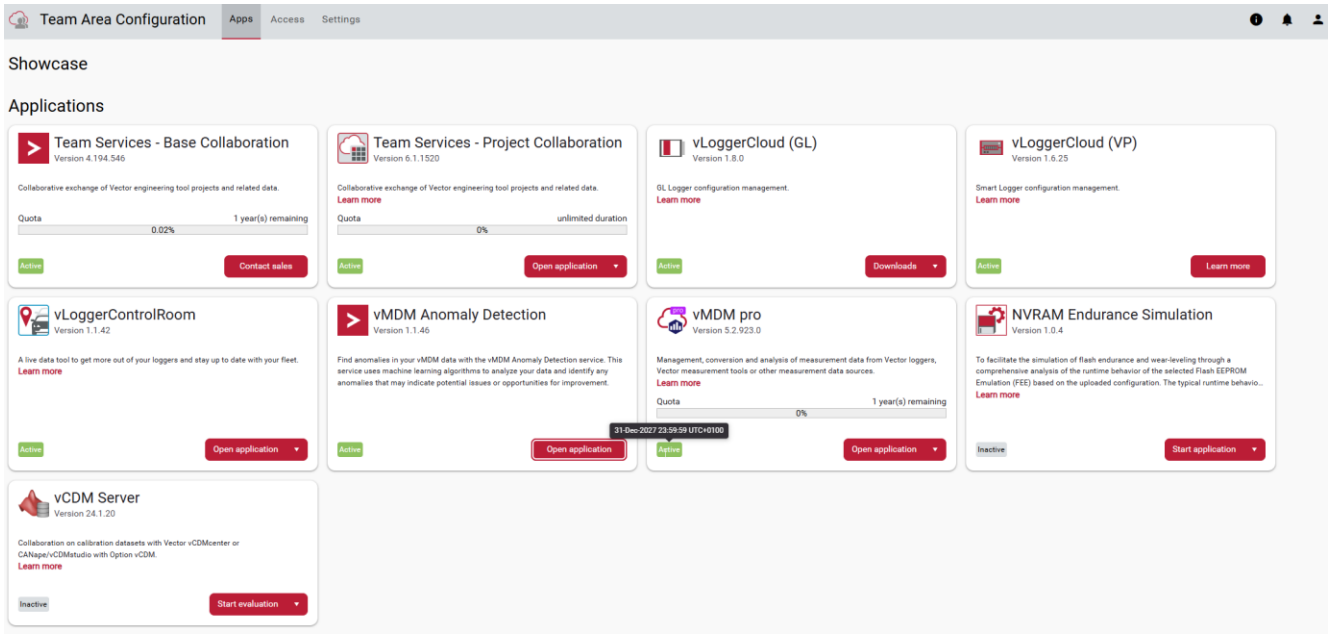


FIGURE 3: Team Services app list.

2.4.1 Project Collaboration

Project collaboration improves your measurement, and calibration tasks and prevents duplicate work.

An expert can create complex hardware and device setups and share them with colleagues. The team can collaboratively work on CANape configuration for various ECU functions.

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Project collaboration is free of charge for all CANape users.

vMDM perfectly complements project collaboration for reporting, data analysis and data conversion.

vCDM perfectly complements project collaboration for driving calibrations to maturity.

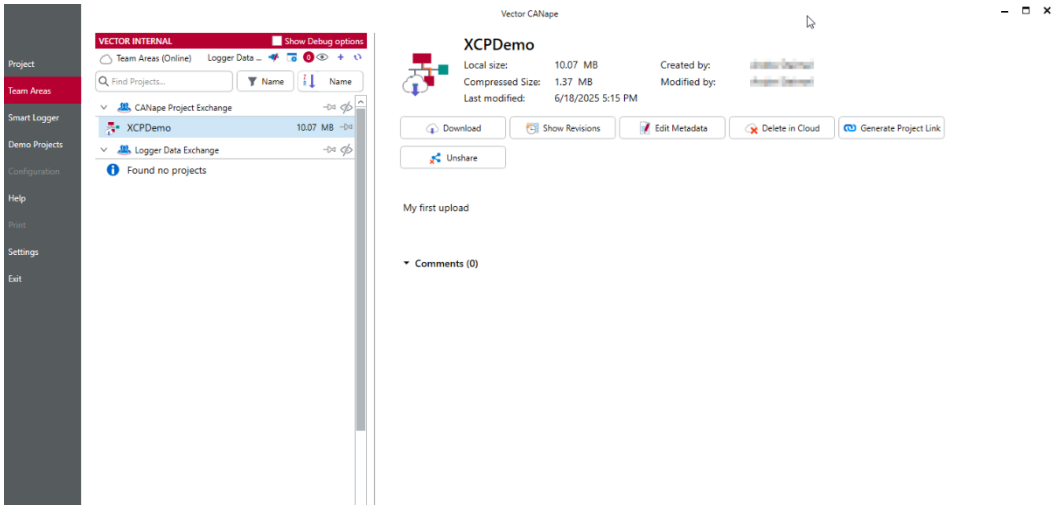


FIGURE 4: Integration of Team Services in CANape

2.4.2 vLoggerCloud for GL Loggers and VP Family

With vLoggerCloud you improve the utilization of your data loggers and make recorded data instantly available.

Loggers and measurement tasks can be updated remotely while in the field, eliminating the need for physical access or recalling vehicles to the garage. Data can be uploaded shortly after recording.

The live data view in vLoggerControlRoom gives you immediate information about the test progress and quality of your measurements. vMDM perfectly complements vLoggerCloud for reporting, data analysis and data conversion.

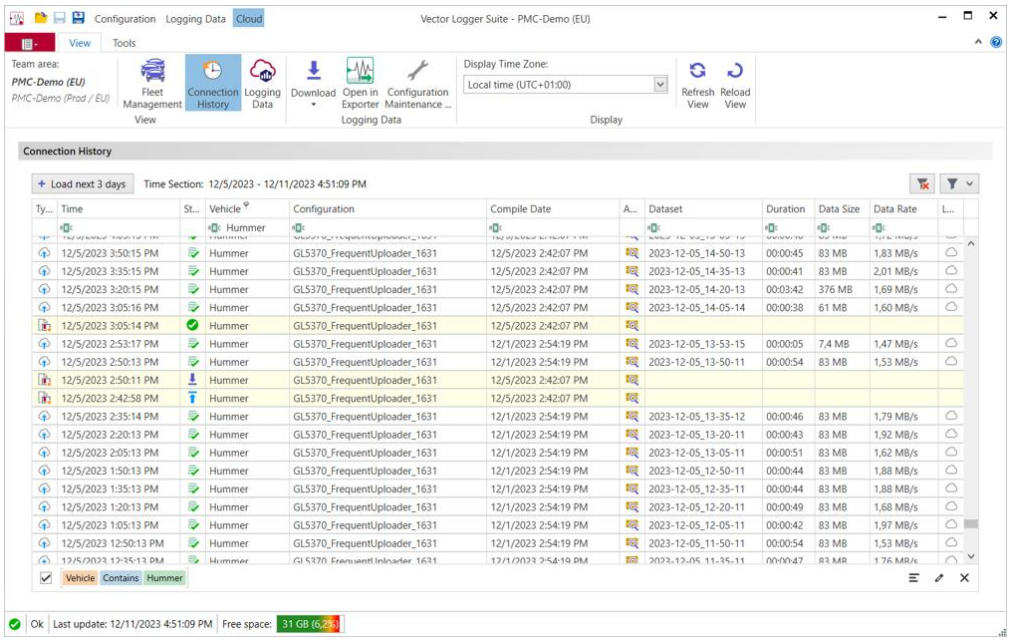


FIGURE 5: Connection history in logger management.

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2.4.3 vLoggerControlRoom

Gain real-time visibility into your entire fleet with our intuitive and robust dashboard. Instantly see the live positions of all connected vehicles and monitor key signals directly from vehicle networks. Stay ahead with actionable insights into fleet and vehicle health, and make faster, smarter decisions with graphical signal visualization designed for rapid interpretation.

Whether you are optimizing performance or refining measurement configurations, this dashboard is your ideal starting point for precision fleet management.

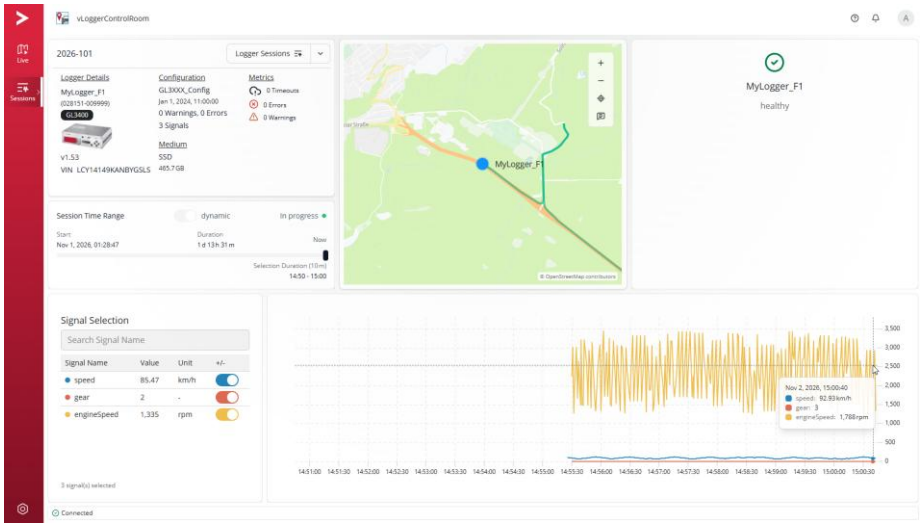


FIGURE 6: Control room live data view and map.

2.4.4 vMDM Measurement Data Management

Consistent and effective data management is key for modern algorithm development and testing.

vMDM captures measurement data throughout the entire development and testing lifecycle. Data aggregation and reports let engineers find what they need instantly and dive into details where necessary.

As a software-as-a-service solution, vMDM is ready in minutes and integrates seamlessly into a Vector supported data pipeline toolchain with vLoggerCloud, CANape or vSignalyzer or other complex tool landscapes.

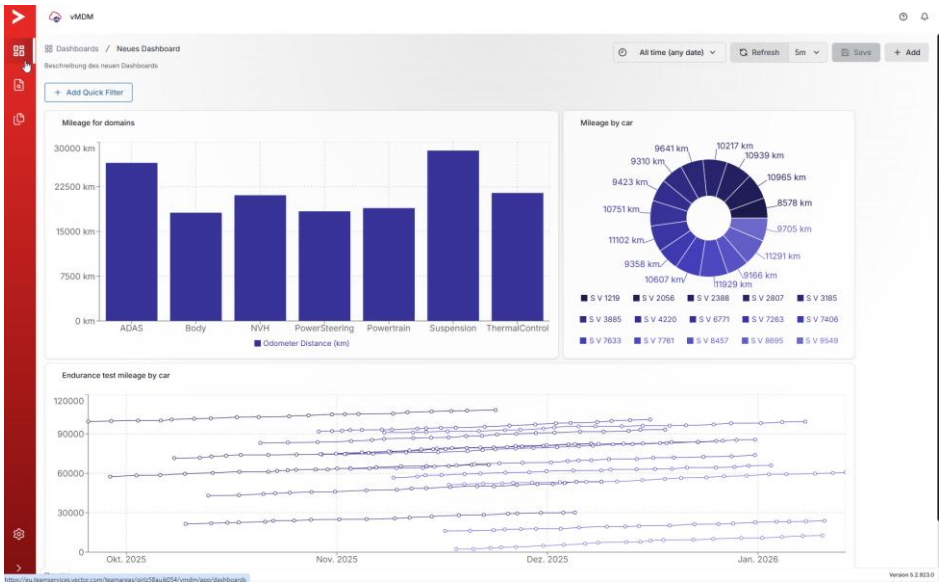


FIGURE 7: vMDM dashboard

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2.4.5 Anomaly Detection

Find anomalies in your measurement data and focus on what matters. The Anomaly Detection app extends vMDM with configurable algorithms for detecting point, sequence, and multivariate anomalies. Apply your chosen algorithm automatically to newly uploaded data for continuous anomaly detection.

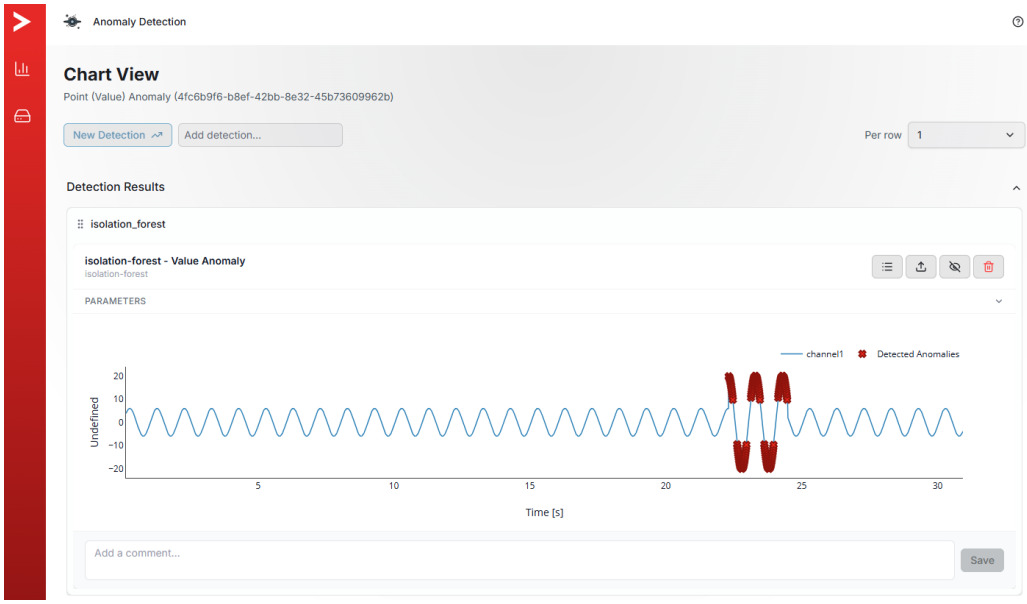


FIGURE 8: Anomaly detection

2.4.6 vCDM Calibration Data Management

vCDM enables engineers to collaborate and drive ECU calibration to maturity - scalable for individual users, teams, or entire enterprises. Improve the efficiency and quality of your calibrations. Gain insights and prevent duplicate work. As a cloud-based solution, vCDM is ready to be used within minutes, delivering maximum speed and reliability at any scale.

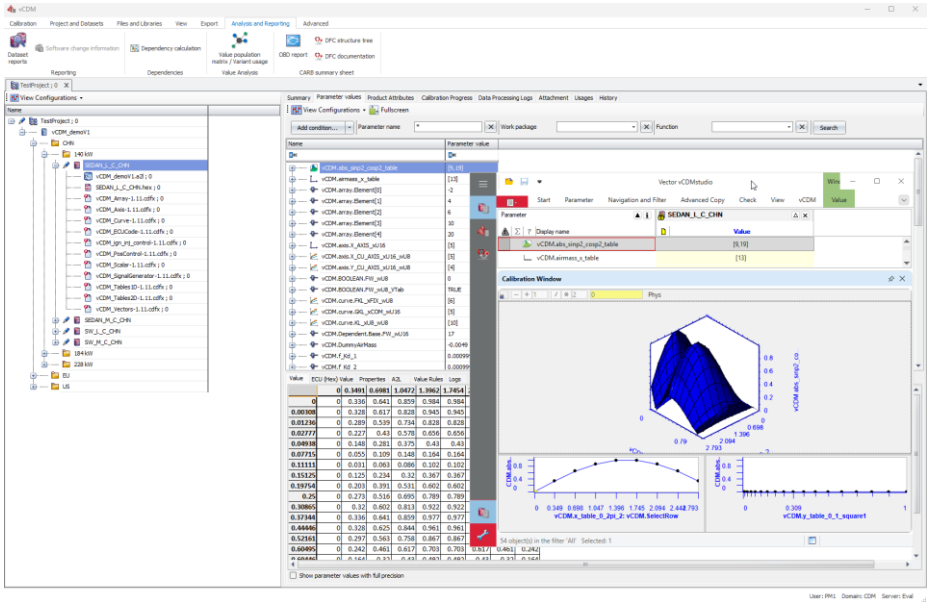


FIGURE 9: vCDM main screen with vCDMstudio editor.

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2.5 Automation and Device Accounts

Automation scripts and devices need specific ways to connect to Team Services. The interactive use cases and confirmation steps do not work for them. Therefore, specific measures have been implemented to guarantee a secure but simple configuration workflow.

2.5.1 Data Loggers

Data loggers also need proper authentication to connect to Team Services to exchange configuration or upload measurement data.

An owner of a Team Area can create an account for a data logger device. For authentication, a device certificate is created and uploaded on the device.

2.5.2 Personal Access Token

Personal access data may not be used in automation scripts. It is therefore possible to create personal access tokens that can be used in automation scripts. The tokens act on behalf of a user but only have limited authorization.

You can also use clients that have been set up in your company's identity provider for automation.

3. Data Privacy, Data Security and Transparency

Data protection and data security are important values. That is why Vector goes to great lengths to create a secure but easy-to-use Software-as-a-Service platform.

We are open to sharing technical details of the architecture and security measures with you and your IT departments. Please contact your cloud and security experts who are responsible for organizing the onboarding of Software-as-a-Service tools and who are responsible for acting according to regulations and internal policies.

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