

Triple V - Vehiclevo Versatile Vault 📦🛒



version 4.0.0

license Proprietary

platform Windows

A comprehensive tool management platform for Vehiclevo

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Overview

Triple V (Vehiclevo Versatile Vault) Vehiclevo Versatile Vault is a comprehensive tool management platform designed to be a unified Hub for all Vehiclevo tools.

Why Triple V?

- **Vehiclevo:** Built only for Vehiclevo.
- **Versatile:** Supporting tools across the entire automotive development spectrum.
- **Vault:** A versioned repository where every tool is documented and easily discoverable.

Features

Core Features

- **Smart Tool Management**
 - One-click download and installation.
 - Automatic version checking and updates.
 - Organized categorization (Classical AUTOSAR, Adaptive AUTOSAR, Generic).

- **Modern UI/UX**
 - Dark theme with the fancy vehiclevo turquoise color.
 - Animated sidebar navigation.
 - Responsive design for all screen sizes.
- **Seamless Updates**
 - Self-updating mechanism for Triple V Application itself.
 - Individual tool update mechanism.
 - Version-aware executable naming (e.g., `TripleV_v4.0.0.exe`)
- **Community-Driven**
 - "Add to Vault" feature for tool submissions.
 - Email-based contribution workflow.
 - Quality assurance through review process.

Installation

System Requirements

- **OS:** Windows 10/11 (64-bit).
- **Storage:** 50MB for Triple V App exe + additional space for downloaded tools.





Quick Start

1. **Download the latest release** <https://github.com/abdallahlssa1/Triple-V/releases/latest>
2. **Extract and run**
 - Extract `TripleV_v4.0.0.zip`
 - Run `TripleV_v4.0.0.exe`
3. **First launch**
 - Triple V will create necessary directories.
 - Check for updates automatically.
 - Ready to download tools!

Usage Guide

For End Users

1. Navigating the Interface

- **Sidebar Navigation:** Click the hamburger menu to expand/collapse
-  Home: Main dashboard with core actions
-  Classical AUTOSAR: Traditional AUTOSAR tools
-  Adaptive AUTOSAR: Modern AUTOSAR tools
-  Generic Tools: Cross-domain utilities

2. Downloading Tools

1. Navigate to the desired category.
2. Browse available tools.
3. Click "Download" on any tool card.
4. Monitor progress in the dialog.
5. Find downloaded tools in `My Downloaded Tools` folder.

3. Updating Tools

- Tools automatically check for updates on startup.

- Orange "Update" button appears when updates are available.
- Click to update with one click.

4. Checking for Triple V Updates

1. Click "Check for Updates" on the home screen.
2. If an update is available, follow the prompts.
3. Triple V will update itself and restart.

5. Contributing Tools

1. Click "Add to Vault" on the home screen.
2. Fill in all required information:
 - Check all required boxes.
 - Select appropriate category.
 - Enter your Vehiclevo email.
 - Provide GitHub repository URL.
3. Submit for review.



For Developers



Adding Your Tool to Triple V

Prerequisites

1. GitHub repository for your tool.
2. Working executable (.exe).
3. Version management strategy.

Step 1: Prepare Your Repository

Ensure YourTool.zip is in the main branch

```
your-tool-repo/  
├─ YourTool.zip # Contains your .exe file  
├─ Triple_V_Config.json # Version metadata  
└─ README.md # Tool documentation
```

Step 2: Create Triple_V_Config.json

Ensure Triple_V_Config.json is in the main branch

```
{  
  "version": "1.0.0",  
  "tool_name": "Your Tool Name",  
  "description": "Brief description of your tool"  
}
```



Building Triple V from Source

Requirements

```
pip install -r triple-v-requirements.txt
```




Project Structure

```
Triple-V/  
├─ main.py          # Entry point  
├─ config/          # Configuration files  
│   ├── settings.py # Application settings  
│   └─ tools_registry.json  
├─ ui/              # User interface  
│   ├── main_window.py  
│   ├── sidebar.py  
│   ├── views/  
│   ├── components/  
│   └─ dialogs/  
├─ utils/           # Utilities  
│   ├── download_manager.py  
│   └─ update_manager.py  
└─ assets/          # Resources  
    ├── triple_v_logo.png  
    ├── triple_v_logo.ico  
    └─ triple_v_pulse.gif
```

Building Executable

```
pyinstaller --name="TripleV_v4.0.0" \  
            --onefile \  
            --windowed \  
            --icon=assets/icon.ico \  
            --add-data="assets;assets" \  
            --add-data="config;config" \  
            main.py
```

Tool Categories

-  Classical AUTOSAR Tools
-  Adaptive AUTOSAR Tools
-  Generic Tools



Contributing




We welcome contributions from all Vehiclevo engineers!

How to Contribute

1. Develop your tool.
2. Test thoroughly.
3. Document usage.
4. Submit via "Add to Vault".

Contribution Guidelines

-  Tools must be stable and tested.
-  Include comprehensive documentation.

-  Follow semantic versioning (SemVer).
-  Ensure Windows compatibility.
-  No malicious code.

Review Process

1. Submission received via email.
2. Technical and stability review by the Reviewers (mainly abdallah.issa and ahmed.Dawoud).
3. Integration into tools registry.

Support

Getting Help

- Documentation: Check this README and usage PDF.
- Issues: Contact the development team.
- Email: abdallah.issa@vehiclevo.com -> (TODO: to be replaced by triplev@vehiclevo.com or something like).

License

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Triple V

Made with  to Vehiclevo