Software Update Guide

Cobalt Cube®

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1 Introduction

This document lays out the strategy of keeping the Cobalt Cube® up to date with the latest security, performance and functionality updates. Even if there are no visible issues with the Cobalt Cube, the software components need to be maintained and updated on a regular basis during the lifetime of the Cobalt Cube.

Usually, a car gets serviced once a year. However, software features are becoming increasingly sophisticated and more frequent updates are necessary. Car manufacturers roll out new software over the air to their cars. This means that new software is installed through an internet connection directly to the car without the vehicle visiting a service centre. These updates can affect the operation of the infotainment system, which means it can affect the operation of the Cobalt Cube.

We constantly test the Cobalt Cube with various vehicles and use customer feedback to ensure our software continues to function appropriately and safely. Furthermore, we regularly improve usability, add new functionality and carry out performance optimisations. For these reasons, keeping the Cobalt Cube firmware up to date with the latest release is vital.

2 Frequency of software updates

As modern cars get software updates over the air regularly, we need to ensure the Cobalt Cube's software is up to date and in line with the latest updates by the car manufacturer.

For this reason, the Cobalt Cube needs to be updated on average three times a year or every four months to guarantee its optimal and secure performance.

VNC Automotive cannot guarantee the correct working order of the Cobalt Cube if regular updates are not installed.

VNC Automotive will distribute the update packages directly to the technical contact point assigned by your company via our secure file server.

3 Software update strategies

Once you receive the upgrade package, several strategies exist to implement software updates for the Cobalt Cube in a vehicle. VNC Automotive is committed to making this process as streamlined and secure as possible.

The Cobalt Cube has a secure firmware service running on the device. During bootup, it will detect a valid firmware update package on the file system.

This update service allows you to implement your update strategy according to your needs. Here is a list of three potential approaches that could be implemented to keep the device up to date:

1. Software update via a USB flash drive when having physical access to the Cobalt Cube.

2. Software update via an in-vehicle computer connected over ethernet to the Cobalt Cube. The computer receives the update package over an internet connection and pushes it to the Cobalt Cube.

3. Software update via a direct internet connection to the Cobalt Cube.

Let's discuss your project

As industry pioneers, we will help you cut through the complexity and deliver ingenious connectivity technology for the vehicles of tomorrow.

Get in contact via:

www.vncautomotive.com
technicalsupport@vncautomotive.com