

BUSBOSS SUITE · PRODUCT GUIDE



# ROUTEpatrol Web

*Browser-Native Routing Engine*

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Re-optimize your entire fleet in the browser in under four minutes. Replace desktop licenses with per-student tiered pricing. Move your routing operation to the cloud before the next bell schedule change breaks everything.

**Orbit Software, Inc.**

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866-740-8994 · [busboss.com](http://busboss.com)

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## Overview

ROUTEpatrol Web is the browser-native routing engine for K-12 school transportation. It replaces legacy desktop routing software with a cloud platform that re-optimizes full fleets in under four minutes, propagates bell-schedule changes live across every downstream route, and prices per student rather than per seat.

Districts using ROUTEpatrol Web typically cut route miles 15–22% within the first 60 days and return \$1.72 for every dollar spent within the first full fiscal year. The platform runs in any modern browser with no install, no VPN, and no IT ticket required.

### Key Metrics

<p><b>SOLVE TIME</b></p> <p><b>3.8 min</b></p> <p>Full fleet, 12 buses</p>	<p><b>MILES CUT</b></p> <p><b>17%</b></p> <p>First 60 days average</p>	<p><b>LICENSE FEE</b></p> <p><b>\$0</b></p> <p>Per-student tiered</p>	<p><b>ROI</b></p> <p><b>\$1.72</b></p> <p>Returned per dollar spent</p>
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# Core Capabilities

## Routing Engine

<p><b>4-Minute Re-Optimization</b></p> <p>Full fleet re-routed in the time it takes to pour coffee. Algorithms weight stop volume, drive time, school bell times, and right-side pickup rules on every run.</p>	<p><b>Browser-Native, Zero Install</b></p> <p>No VPN, no desktop client, no IT ticket. Route from the parking lot, the snow day, or the board meeting. Works on any modern browser.</p>
<p><b>Right-Side Pickup Logic</b></p> <p>Every stop placed on the curb side of the road. No cross-traffic. No parent complaints. No liability conversations the superintendent did not want to have.</p>	<p><b>Bell-Change Propagation</b></p> <p>Change an elementary start time at 4:47 PM. The entire downstream chain—middle school, high school, tiered transfers—rebalances before drivers log out for the day.</p>
<p><b>Ask BusBoss AI Copilot</b></p> <p>Natural-language route editing. "Move Oak Street stop to Route 14. Rebalance the fleet. Send drivers the new turn-by-turn." Done before the next call comes in.</p>	<p><b>Per-Student Tiered Pricing</b></p> <p>Pricing follows the student, not the seat. No per-user license inflation. Scales linearly with district size.</p>

# System Requirements

## Client Requirements

- Modern browser: Chrome 120+, Edge 120+, Firefox 115+, Safari 17+.
- Minimum screen resolution: 1366 × 768. Recommended: 1920 × 1080 or larger for split-screen routing.
- Broadband internet connection (4 Mbps or higher).
- No VPN, no desktop client, no admin rights required on the workstation.

## Authentication & Security

- SSO via SAML 2.0 supported — integrates with Google Workspace, Microsoft Entra ID, and Okta.
- Role-based access control: Viewer, Router, Admin, and District Admin.
- All data encrypted in transit (TLS 1.3) and at rest (AES-256).
- SOC 2 Type II audited. FERPA-compliant data handling for student information.

## Integration Points

ROUTEpatrol Web sits at the center of the Patrol Suite routing data spine. Routes created here feed downstream into every other Patrol product.

Integration	
<b>ROUTEpatrol Tablet</b>	Push current route with turn-by-turn to driver tablets in the cab.
<b>TRIPpatrol</b>	Share planned route geometry so GPS deviation alerts fire against the correct path.
<b>STUDENTpatrol</b>	Bind student rosters to stops for RFID boarding verification.
<b>PARENTpatrol</b>	Serve route ETAs and bus locations to the parent-facing mobile app.
<b>DISPATCHpatrol</b>	Expose route changes to the dispatch console for real-time reroute approval.
<b>FLEETpatrol</b>	Share vehicle assignments so maintenance schedules track route usage.
<b>BusBoss Professional</b>	Optional migration with legacy BusBoss SQL database for transitional districts.
<b>SIS Systems</b>	LiveSYNC connectors for PowerSchool, eSchoolData, eSchoolPLUS via SIF Agent.

# Implementation

ROUTEpatrol Web onboarding is designed to have your district routing live within two weeks, fully optimized within 30 days, and returning measurable savings within 60.

## Rollout Timeline

Phase	Activities	Duration
<b>Phase 1</b>	Kickoff call, account provisioning, district data inventory. We identify your SIS, your existing routing tool, and your fleet roster.	<b>2 days</b>
<b>Phase 2</b>	Data migration: students, schools, bell schedules, fleet, existing routes. Import from spreadsheets, BusBoss Professional, or legacy routing system.	<b>3–5 days</b>
<b>Phase 3</b>	Routing coordinator training (two 2-hour sessions). Ask BusBoss AI copilot orientation. First re-optimization run against your actual data.	<b>3 days</b>
<b>Phase 4</b>	Parallel run: legacy tool and ROUTEpatrol Web side by side. Validate against current-year routes. Confirm stop-by-stop accuracy.	<b>1 week</b>
<b>Phase 5</b>	Go-live: cut over to ROUTEpatrol Web as primary routing tool. Legacy tool retired. First live re-optimization against a real bell-schedule change.	<b>1 day</b>
<b>Phase 6</b>	First-quarter review: mileage reduction, fuel savings, dispatch-call volume, and routing coordinator time reclamation measured against baseline.	<b>90 days</b>

## Data Migration Checklist

Before kickoff, your team should gather the following. We handle the conversion; you provide the source.

- Current student roster with home addresses, grade levels, school assignments, and any special transportation needs.
- School directory with bell times (start, dismissal, tiered dismissals).
- Vehicle roster: bus numbers, capacities, assigned routes, driver assignments.
- Current-year route definitions (stop sequences, times, assigned students).
- District boundary files, attendance zones, and any walk-to-school exclusion zones.
- Contact list: routing coordinator, transportation director, IT liaison, SIS administrator.

## Training

Training is included in every implementation. Districts receive two live 2-hour sessions, a dedicated success contact for the first 60 days, and unlimited access to the online SuccessRoute training library.

Training Sessions	
<b>Session 1: Routing Fundamentals</b>	Dashboard tour, student/school/vehicle entry, stop building, route assignment, bell-schedule changes. Hands-on with your data.
<b>Session 2: Optimization &amp; AI</b>	Running the optimization engine, interpreting results, right-side pickup rules, Ask BusBoss natural-language editing, export to drivers and SIS.
<b>Ongoing Support</b>	US-based support desk, live chat, peer-to-peer forum, and quarterly office hours with the engineering team.

# Support & Success

## What Is Included

- Unlimited users, unlimited routes, unlimited students — scoped by per-student subscription.
- US-based technical support (phone, email, live chat) during business hours. Emergency after-hours support for critical go-live periods.
- Quarterly product updates delivered automatically. No version upgrade projects, no migration downtime.
- SuccessRoute online training library, peer support forum, and knowledge base.
- A+ Software Checkpoints program: quarterly reviews with your success contact to surface new features and identify optimization opportunities.

### Typical ROI Within First Fiscal Year

Across active districts, ROUTEpatrol Web returns \$1.72 for every \$1 spent within the first full fiscal year. Gains come primarily from reduced route miles (diesel), eliminated desktop license fees, and reclaimed routing coordinator hours. Bundle with FLEETpatrol for an additional 10–15% savings across both products.

# Get Started

Every district rollout starts with a 30-minute walkthrough tailored to your fleet, district size, and existing stack. We use your actual student count and fleet numbers to show what the platform looks like in your shop, not a generic demo.

## Request a Demo

**Phone:** 866-740-8994

**Web:** [busboss.com/demo/schedule](https://busboss.com/demo/schedule)

**Email:** [sales@busboss.com](mailto:sales@busboss.com)

## About Orbit Software

Orbit Software, Inc. has built transportation management software for K-12 school districts since 2000. The Patrol Suite is used by districts across 31 states, supporting fleets from 10 buses to 400+. All development and support are US-based from our Pottstown, Pennsylvania headquarters.

### Bundle Pricing Available

ROUTEpatrol Web integrates with every other product in the Patrol Suite. Bundle two or more products for 10–15% off across the full subscription. Contact sales for a custom quote based on your fleet size and product mix.

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