

STREETS 7.1

FEATURE ENHANCEMENTS

December 2023 RELEASE NOTES

TRADE SECRET
PRODUCT VERSION 7.1

Streets 7.1 Software Feature Enhancements | December 2023 Edition

TRADE SECRET

This edition is based on product version Streets 7.1.

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STREETS 7.1 PRODUCT INFORMATION

Streets is a fully integrated Intelligent Transportation System (ITS) solution designed specifically for small to mid-size transit agencies to increase the efficiency of their fixed route operations. It includes a suite of desktop applications providing administrative, scheduling, dispatch and reporting functionality, as well as an in-vehicle mobility application. Unless otherwise identified as an *Optional Add On*, all new features are included with this current release of software.

ABOUT THIS RELEASE

These release notes summarize the features of the new Streets 7.1 Software December 2023 release. This document includes release notes for the following Streets software:

- ✓ General Features
- ✓ Streets Admin
- ✓ Streets Dispatch
- ✓ Streets Schedule
- ✓ Streets Server
- ✓ Streets WebServices
- ✓ Minimum System Requirements

NOTE: The purpose of this document is to provide an introduction and brief outline of newly available features and improvements.

For full feature details, please reference the Streets 7.1 System User Guide.

GENERAL

New Features

NEW! APC BALANCING

To support APC certification, Data Warehouse now has the ability to generate balanced APC data such that total alight counts and aboard counts of VehicleLocationTP records are balanced out at the end of the vehicle block or the block item. This feature validates the unbalanced data to determine whether the data are imbalanced within defined thresholds. If the difference between 'Ons' and 'Offs' exceeds a specific, agency-defined threshold or the variance in 'Ons' and 'Offs' deviates significantly from the total, the unbalanced data will not be processed.

For more information on this new functionality, including installation, please refer to the Streets 7.1 System User Guide.

NEW! FREQUENCY BASED SERVICE – STAGGER BLOCK END TIMES

Streets 7 introduced the ability for planners to create frequency-based service in the Streets Schedule application. This feature builds on that functionality so that the block items created for frequency-based service will now stagger the end time based on the headway. The end time will stagger beginning from the frequency trip end time. This means that the Trip start time will be when the first block begins, and the Trip end time will be when the first block completes. Because of this the generated block items will extend beyond the trip time, and if the frequency trip end time is too close to the end of the service day the block items may be invalid because they will extend beyond the service day.

PLEASE NOTE that this feature needs to be enabled in the Streets Server configuration file and requires the agency vehicles to run Streets Mobility version 11+.

For more information on this new functionality, including installation, please refer to the Streets 7.1 System User Guide.

NEW! CONFIGURE ARCGIS MAPS FOR MYDRIVE

Streets 7 introduced ArcGIS Runtime API for all mapping functionalities. To make deployment and management of maps simpler, myDrive will be using the same mapping solution as Streets (ESRI ArcGIS). This allows for map configurations for the in-vehicle solution, such as license keys and basemap styles, to be handled in Streets.

For more information on this new functionality, including installation and specific limitations, please refer to the Streets 7.1 System User Guide.

Streets General Improvements

- ✓ Radio Console – Removed CantraCom Support: We have removed the legacy support for Motorola CentraCom radio consoles from Streets. This includes the Radio Console gateway service and all related functionality in Streets. Support for the Avtec radio system has not been changed.

STREETS DISPATCH

New Features

DISPATCH – IMPROVE BROADCAST STATISTIC TRACKER

Broadcast Statistic Tracker is an internal diagnostic tool in Dispatch that logs the server broadcasted item processing performance. In previous versions, the tracker logs a snapshot of the processing performance after Dispatch processed a specific amount of broadcasted.

However, for larger sites with a lot of broadcast items, Dispatch app could process many broadcast items which leads to the tracker constantly logging performance snapshots, which slow down the Dispatch app.

In this release, the tracker will now only log once every configurable amount of time.

For more information on this new functionality, including installation, please refer to the Streets 7.1 System User Guide.

STREETS SCHEDULE

Streets Schedule Improvements

- ✓ GTFS – Consistent Route and Stop ID Across Schedules: When generating a GTFS feed, Streets will now use a value for the Route ID and Stop ID that is consistent across schedules. While this is not a requirement in the GTFS specification, this follows a similar practice to how other GTFS vendors generate their GTFS feeds, and it helps improve data consistency.
- ✓ In Streets Server, posting an emergency schedule is much faster now for larger sites.
- ✓ When changing a production schedule, previous Streets versions experienced a freeze. Now, if there is no change to the Route Selector's route list, it will no longer trigger the Trip Timetable to reload, reducing freezing times.

STREETS SERVER

Streets Server Improvements

- ✓ GTFS-RealTime TripUpdates Include Future Trips - To provide better time estimates for future trips to those vendors, the GTFS-RT's TripUpdates.pb that's generated by Streets needs to include more than just the active buses' current trips. TripUpdates.pb will now provide ETA or ETD trip point data for future trips on the current running blocks and any upcoming blocks.
- ✓ Manage Add-On Feature to myDrive - myDrive add-on features are now managed by Streets Server. This allows Streets to control the available add-on functionality in myDrive without the need to configure vehicles individually. Streets Server supports enabling Route Book and/or Advanced Turn Alerts. This information is sent to myDrive when:
 - A driver is logging on to the device.
 - Dispatcher performs an on-behalf logon for a driver.
 - Streets Server receives a request message from myDrive.
- ✓ myDrive Fare Types Configuration - Fare types are sent to Streets Mobility using flat-file format. Streets will send fare types directly to myDrive when the driver logs in. Fare types will NOT change on the fly after the driver logs on. If a user changes the fare types while vehicles are in service, they will need to request the driver to log out and log in again for the changes to take effect.
- ✓ OPSMonVehicle.AVLIdentifier no longer overrides AgencyVehicle.Vin – Eliminating this automatic overwrite allows support for 18 digit VIN characters. This gives the user the flexibility to specify the VIN value that would work with the EAM system.

Streets WebServices

Updates

WEBSERVICES V2 – v1.5 IS UNCHANGED IN STREETS 7.1

The Streets WebServices V2 remains on version 1.5 and is unchanged between Streets 7 and Streets 7.1.

MINIMUM SYSTEM REQUIREMENTS

Streets Software and Third-Party Library Requirements

STREETS 7.1

NOTE: Microsoft will stop supporting Windows Server 2012 (EOL Oct 2023).

COMPONENTS	STREETS SERVER	DATA WAREHOUSE	DISPATCH, ADMIN, SCHEDULE	TV SIGN
OS	Windows Server 2016 or above Windows Server 2012 (Limited Support)		Windows 10	
.NET FRAMEWORK	4.7.2 +			
SQL SERVER (STANDARD, ENTERPRISE EDITIONS)	2014, 2016, 2017, 2019			
IIS	10+ 8.5+ (Limited Support)			
INTERNET ACCESS	Yes	No	Yes	Either Internet or Intranet
INTRANET ACCESS	Yes	Yes	Yes	Either Internet or Intranet
XGATE	5.4+			

* Limited Support would mean TripSpark may request the client to upgrade their software (e.g. OS, SQL Server) in order to continue Streets support.

STREETS MOBILITY 11+

- Streets 6.9+

MYRIDE 5.1

- IIS 8+
- .NET Framework 4.7.2
- Streets 6.9
 - Required Streets Web Server V2 (version 1.4)

FR WEB API 1.0 (NEW COMPONENT)

SQL Server 2012, 2014, 2016, 2017 (64 bit)

THIRD PARTY SERVICES

The following lists all of the required MyRide third-party services and associated settings. Please ensure to setup and acquire the following configurations when deploying MyRide 5.1:

- **Google** - Map, trip planning, analytic, reCAPTCHA, and MyRide account sign up
- **OneSignal** - Push Notification to web browser and native app
- **Facebook** - MyRide account sign up
- **Twilio** - SMS services
- **TextMarks** (For existing customers) - SMS services
- **BIT.LY URL Shortening** - Short link generation
- **Apple** - MyRide account sign up
- **MapBox (Optional)**- Map

STREETS REPORTS YELLOWFIN 7.4

Client Requirements

REQUIREMENT	RECOMMENDED MINIMUM SPECIFICATION
WEB BROWSER	Support browsers include: IE 8 +, Firefox 2+, Opera 8+, Safari 2+
PDF READER	A PDF reader such as Adobe Acrobat Reader for viewing PDF files. This reader is only required if users export Yellowfin reports to PDF.

Application Server Requirements

REQUIREMENT	RECOMMENDED MINIMUM SPECIFICATION
PROCESSOR	2 x Dual Core 3GHz or faster
RAM	Min 4 GB
HARD DISK	1 GB Free Space
OPERATING SYSTEM	Windows 2000 or later Linux (Red Hat Enterprise Linux, SUSE Linux Enterprise Server or Ubuntu Server LTS recommended) Solaris 7 or later Mac OS X
JAVA	JRE 1.6 Minimum
WEB APPLICATION SERVER	Yellowfin comes with Apache Tomcat, which is a standalone, platform independent application server. Yellowfin can also be used in other application servers such as an existing installation of Tomcat, WebSphere, WebLogic, Oracle Application Server or JBoss.
WEB SERVER	The default installation uses an embedded web server. However, Yellowfin can optionally be integrated with other web server software such as Apache, WebSphere and Microsoft IIS. The web server does not necessarily need to run on the same physical computer as the application server.

Database Server Requirements

REQUIREMENT	RECOMMENDED MINIMUM SPECIFICATION
PROCESSOR	2 x Dual Core 3GHz or faster
RAM	Min 4 GB
HARD DISK	10 GB, preferably with RAID disk monitoring

DATABASE	<p>Yellowfin can connect to and report from any database that has a JDBC driver and that supports SQL – 92 compliant SQL. Yellowfin requires one of the following databases to use as an application configuration database:</p> <ul style="list-style-type: none"> • DB2 Universal Database 8.1+ • Oracle Database 9i, 10g, 11g • PostgreSQL 8+ • Progress 9.1 • SQL Server 2000+ • Sybase ASE, ASA, IQ • Ingres • MySQL 5 • Cache DB • HSQL (Not for production systems)
JAVA WEB APPLICATION SERVER	<p>JRE 1.6 Minimum</p> <p>Yellowfin comes with Apache Tomcat, which is a standalone, platform independent application server. Yellowfin can also be used in other application servers such as an existing installation of Tomcat, WebSphere, WebLogic, Oracle Application Server or JBoss.</p>
WEB SERVER	<p>The default installation uses an embedded web server. However, Yellowfin can optionally be integrated with other web server software such as Apache, WebSphere and Microsoft IIS. The web server does not necessarily need to run on the same physical computer as the application server.</p>

HANOVER SIGN API

Same version number but need the latest software.