Getting Started
User Guide

National Transportation Data and Analytics Solution (NTDAS)

Powered by IEEE and NPMRDS
Updated May 1, 2024
## User Guide Contents

Find general information and log-in details for the National Transportation Data & Analytics Solution platform

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What is NTDAS?

The National Transportation Data & Analytics Solution is a powerful platform that provides a unique, robust, and high-quality roadways transportation data set combined with advanced analytics tools, enabling valuable insights to empower academic research and instruction. The National Transportation Data & Analytics Solution platform is equipped with state-of-the-art analytics tools allowing users to:

- Conduct advanced analysis, research, and performance generation using probe data
- Evaluate the congestion health across roadways
- Analyze traffic conditions across multiple stretches of road
- Gain insight into several statistics like speed, buffer time index, planning time index, and travel time index
- Determine monetary impact of a delay on the roadway to its users
- Create animated maps of performance metrics over time and visualize data on other interactive graphic tools
How do I create an account?

1. Go to https://ntdas.ritis.org/ieee/

2. New subscriber? Click on the “Register here” link and follow the on-screen instructions which will take you to https://www.ritis.org/register.

3. Want to learn more first? Click on the “Learn more” link.
New User Registration

1. To access NTDAS, users must register an account with RITIS at https://www.ritis.org/register. Once an organization has purchased NTDAS, users’ accounts will be automatically approved.

2. Users can register an account by using their institutional email address.

3. Set a password in Step 2 of the registration form.

4. Users may get an email with the subject ACCOUNT REQUEST from RITIS. The user should reply to this email mentioning taking part in an IEEE NTDAS trial/paid subscription.

5. Users will receive an activation email, and the link will take users to http://www.ritis.org/.

6. Out of the four options shown on the RITIS homepage, users should click http://npmrds.ritis.org/.

7. Once activated, users can log in directly to the platform at https://ntdas.ritis.org/ieee.

8. Every user at an organization must have their own RITIS account, and shared logins will not be permitted!

9. For questions about the product, user guide, or use cases, contact ntdas-support@ieee.org.

Users can put the name of their institution in the Agency Box.
How do I log in?

Go to https://ntdas.ritis.org/ieee/ and enter your email address and password and click the Log in button.

Forgot your password?

- From the login window, select the Forgot my password link, specify your registered email and select the Continue button.
- Your password will be reset, and notification of follow-up steps will be sent to you by email.
Homepage

Once you log in, you will see all 14 tools of the National Transportation Data & Analytics solution that are shown on the homepage.

- Dashboard
- Congestion Scan
- Corridor Time Comparison
- Performance Charts
- Coverage Map
- Tutorials
- Report Templates
- Massive Data Downloader
- Corridor Speed Bins
- Trend Map
- Performance Summaries
- User Delay Cost Analysis
- MAP-21
- User Guide and Use Cases

Users can click each icon to go to the menu for each widget.

There are links available on each widget box for tutorials, My History, and more detailed information in the Help Section.

Links above are for report templates, My History, and the Help and Tutorials Sections.

Check the What’s New Section for continuous updates of NTDAS.
What do the different icons mean?

**Dashboard**
Build and share personalized dashboards using a multitude of widgets that track performance metrics.

**Massive Data Downloader**
Download raw probe data from our archive for offline analysis.

**Congestion Scan**
Analyze the rise and fall of congested conditions on a stretch of road.

**Corridor Speed Bins**
Visualize congestion measures by time spent at each speed on a stretch of road.

**Corridor Time Comparison**
View congestion metrics as a function of location on a road.
What do the different icons mean?

Trend Map
Create animated maps of roadway conditions.

Performance Charts
Chart performance metrics over time.

Performance Summaries
Report on Buffer Time Index, Planning Time Index, and other performance metrics.

NPMRDS Coverage Map
Explore the coverage completeness of the NPMRDS on a month-by-month basis.

User Delay Cost Analysis
Put a dollar amount on how much a road's performance impacts its users.
What do the different icons mean?

**Tutorials**
Learn how to use each of the tools in the suite.

**Map-21**
Create a dashboard widget to monitor states’, MPOs’, and Urbanized Areas’ performances against the new MAP-21 ruling.

**Report Templates**
Learn how to transform data from tools in our suite into professional storytelling reports, documents, and pamphlets.

**User Guide/Use Cases**
Access a detailed user guide and review real life applications of the NTDAS platform.
Quick Glance at the Dashboard

Create your own personal dashboards to monitor corridor performance in regions of interest.

1. In the drop menu, users can press the ‘Create new dashboard’ to bring up a blank dashboard
2. Click the ‘Add Widget’ button to bring up the menus for MAP-21 or User Delay Cost Analysis.
3. Go to the Dashboard tutorial for more information
Quick Glance at the Tools

Congestion Scan:

Massive Data Downloader:
Quick Glance at the Tools

Corridor Speed Bins:

Performance Charts:
Quick Glance at the Tools

Performance Summaries:

NPMRDS Coverage Map:
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User Delay Cost Analysis:

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NTDAS Platform:
https://ntdas.ritis.org/ieee/

For more help with the platform, please contact IEEE at:
ntdas-support@ieee.org

Free trials are available for academic institutions! For more information contact:
ntdas-sales@ieee.org