Nordian

SmoothTrack Configuration

SmoothTrack Configuration

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Overview

SmoothTrack is a feature designed to ensure seamless operation during a complete loss of correction signals. When corrections become unavailable, SmoothTrack activates to keep stability and consistent tracking, minimizing jumps when switching from corrected to non-corrected operation.

SmoothTrack Maintain, enabled by default, complements this behavior by handling short-term interruptions in correction signals. It helps preserve position quality during brief drops, reducing the impact on overall performance.
NOTE: **Document valid for 3.0.0+ firmware version.**

Learn More

If you have any doubt on how to proceed with this configuration, we recommend exploring the following documents with additional information of Smart Antenna configuration:

- Quick Start - Application Notes

SmoothTrack

Enabling SmoothTrack

SmoothTrack comes disabled by default. On Nordian Updater, transmit the following command to enable the feature:

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```
$SMOOTHTRACK STATE ENABLE
```

If you want to disable the feature, transmit this command:

```
$SMOOTHTRACK STATE DISABLE
```

SmoothTrack Transition Command

The command below defines how quickly the route transition will occur. The default transition time is 60 seconds, but it can be adjusted between 0 and 600 seconds.

```
$SMOOTHTRACK TRANSITION SET <Transition_time>
```

- In <Transition_time>, select the desired transition time.

Transition Default Command

On Nordian Updater, transmit the following command to reset transition to its default value:

```
$SMOOTHTRACK TRANSITION DEFAULT
```

SmoothTrack Maintain

Setting SmoothTrack Maintain

SmoothTrack Maintain comes enabled by default. On Nordian Updater, transmit the following command to disable the feature:

```
$SMOOTHTRACK STATE DISABLE MAINTAIN
```

If you only want to enable the feature and keep other SmoothTrack features disabled, transmit this command:

```
$SMOOTHTRACK STATE DISABLE MAINTAIN
```

Configuration Status

Once the configuration is complete, you can issue a command to retrieve the SmoothTrack Status and confirm that the configuration was applied correctly. On Nordian Updater, enter and transmit the following command:

```
$SMOOTHTRACK CONFIGS STATUS
```

Note: The $SMOOTHTRACK STATE <ENABLE/DISABLE> command enables or disables both SmoothTrack and SmoothTrack Maintain simultaneously.

If you want to control SmoothTrack Maintain separately, use its dedicated command, as shown in the section above.

The command returns the current status of both SmoothTrack and SmoothTrack Maintain, along with transition time value, as shown below:

- State:
  - "Enabled": Both features enabled;
  - "Maintain": Only SmoothTrack Maintain enabled;
  - "Disabled": Both features disabled.

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Saving Configurations

When configurations are altered via Serial commands, they're only active while the device is powered on. Once all the configuration is complete, it is essential to save. On Nordian Updater, enter and transmit the following command to save SmoothTrack and SmoothTrack Configurations.:

```
$SMOOTHTRACK CONFIGS SAVE
```

Example of SmoothTrack Configuration

Let's enable the SmoothTrack feature with 100 seconds of transition time, while SmoothTrack Maintain is enabled by default..
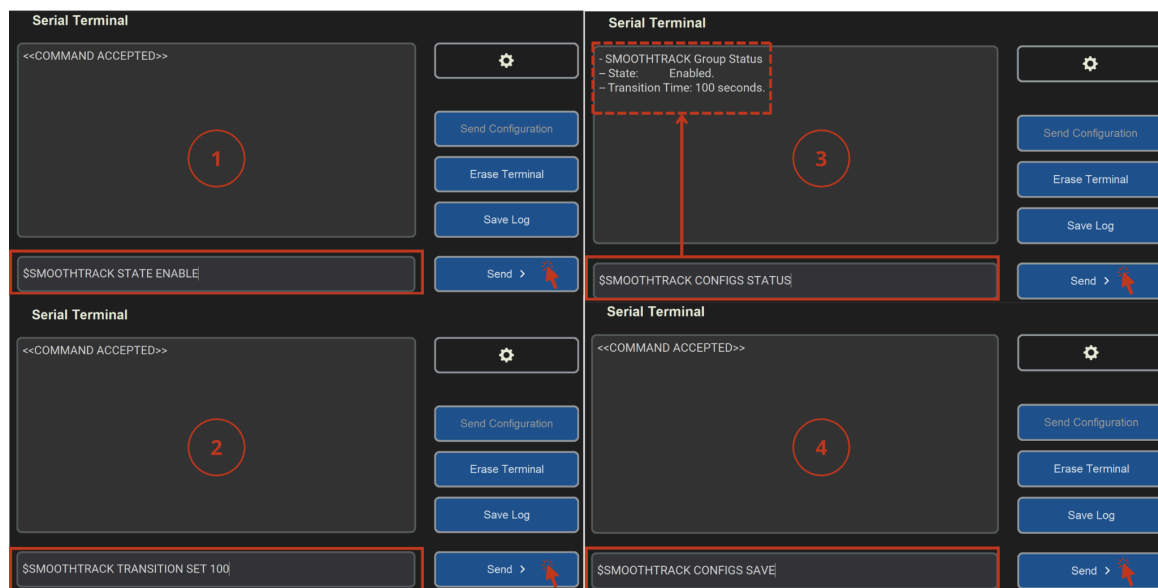

Figure 1 • **Example of SmoothTrack Configuration.**

Example of SmoothTrack Maintain Configuration

Since SmoothTrack Maintain is enabled by default, the following example shows how to disable it manually.
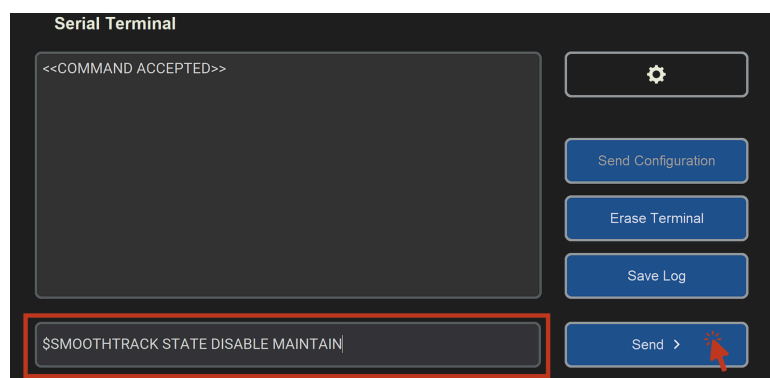

Figure 2 • **Example of SmoothTrack Maintain Configuration.**

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Support

By following these steps, you can effectively configure SmoothTrack. For specific support, doubts and warranty claim, contact Nordian Inc at:

URL: www.nordian.com
SAC: support@nordian.com