

TRIMBLE SparseVRS APP TECHNICAL NOTES



The Trimble® SparseVRS App is designed to offer a virtual reference station solution for networks with extended inter-station distance and applications with a requirement of sub-decimeter horizontal accuracy. The Trimble SparseVRS App operates on the Trimble Pivot™ platform, the foundation for multiple Infrastructure apps that serve various markets and their specific needs.

TRIMBLE SparseVRS APP

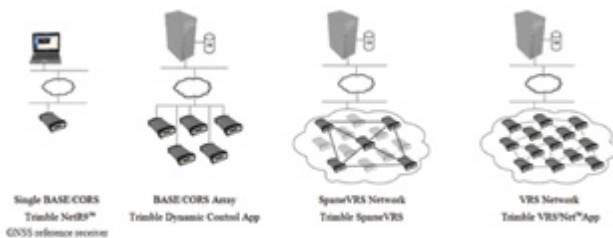
The Trimble SparseVRS App is designed to offer a VRS™ solution for applications with a requirement of sub-decimeter horizontal accuracy (2 Sigma). This recent Trimble innovation allows real-time network operators to provide high quality correction data, either as an intermediate step to a fully operational VRS network or as a solution for customers with less stringent accuracy requirements. The SparseVRS App allows users to configure and grow their network with flexibility that is unmatched in the industry!

SparseVRS APP STATUS VIEW

Application health status information is provided at a glance for all activated apps running under the Trimble Pivot platform. The SparseVRS App Status View provides an overview of its performance and the performance of available sparse network processors, as well as the number of rovers connected to the network. The App Status View assists the operator in analyzing critical and non-critical situations in real-time to better assist field end users. This smart and interactive feature will point you to the exact module and functionality you want to analyze. The traffic light indicator provides a high level application status summary.



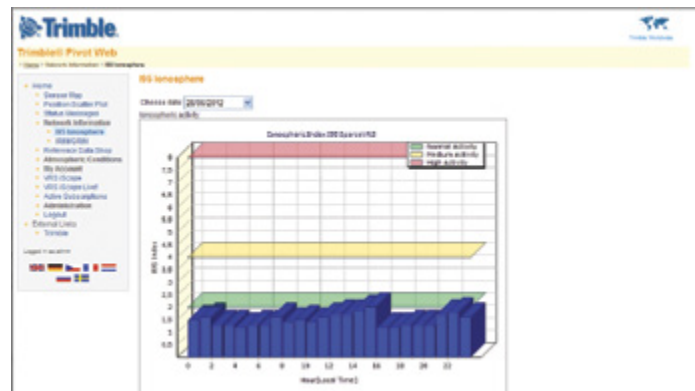
SparseVRS App Status View on the Trimble Pivot platform



Scalable Trimble Infrastructure Solution

SparseVRS PAGES IN TRIMBLE PIVOT WEB APPLICATION

The Trimble Pivot platform software includes a basic web installation. Some licensed apps add their own web pages providing additional functions. The Trimble SparseVRS App offers web pages available for network users to receive information about the network for a certain day. The ionosphere activity, which influences the rover performance, is visualized through the I95 Index and the ionospheric residual integrity monitoring value. Together with the geometric residual integrity monitoring value, the user of the service can derive information about the quality of the network.



I95 Index in Trimble Pivot Web Application

NOTE

The specification considers times of high ionosphere activity. In cases of normal ionosphere activity, the user can expect much better performance as stated. The key to modern network processing and rover survey methods is usage of modern Network software and of new generation GNSS hardware and firmware. The usage of outdated equipment on reference stations or rovers will have an impact on the overall system performance which will affect the accuracy.

In order to verify the latest supported instruments in a SparseVRS environment, please contact your Trimble Infrastructure sales representative.



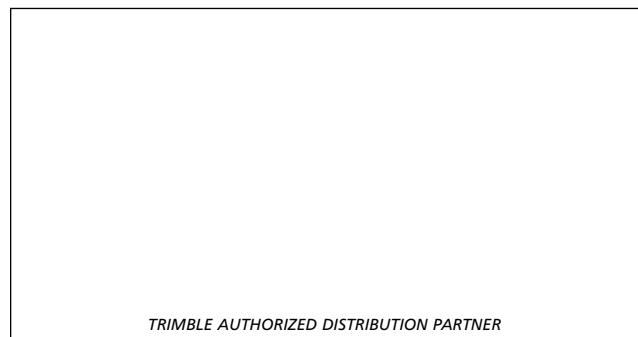
BASIC REQUIREMENTS

Requirement	Value
Inter station spacing	< 120 km
Supported CORS receiver types	Trimble NetR5™, NetR8™, NetR9™
Required firmware for CORS receivers	4.43 or later
Required CORS coordinate accuracy	1 cm
Trimble Survey GNSS-rover firmware	4.43 or later

ORDER INFORMATION

Default Configuration	Part Number
Trimble SparseVRS App	96802-30

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