

Global GNSS Correction Service

Topnet Live



WHAT IS
TOPNET LIVE

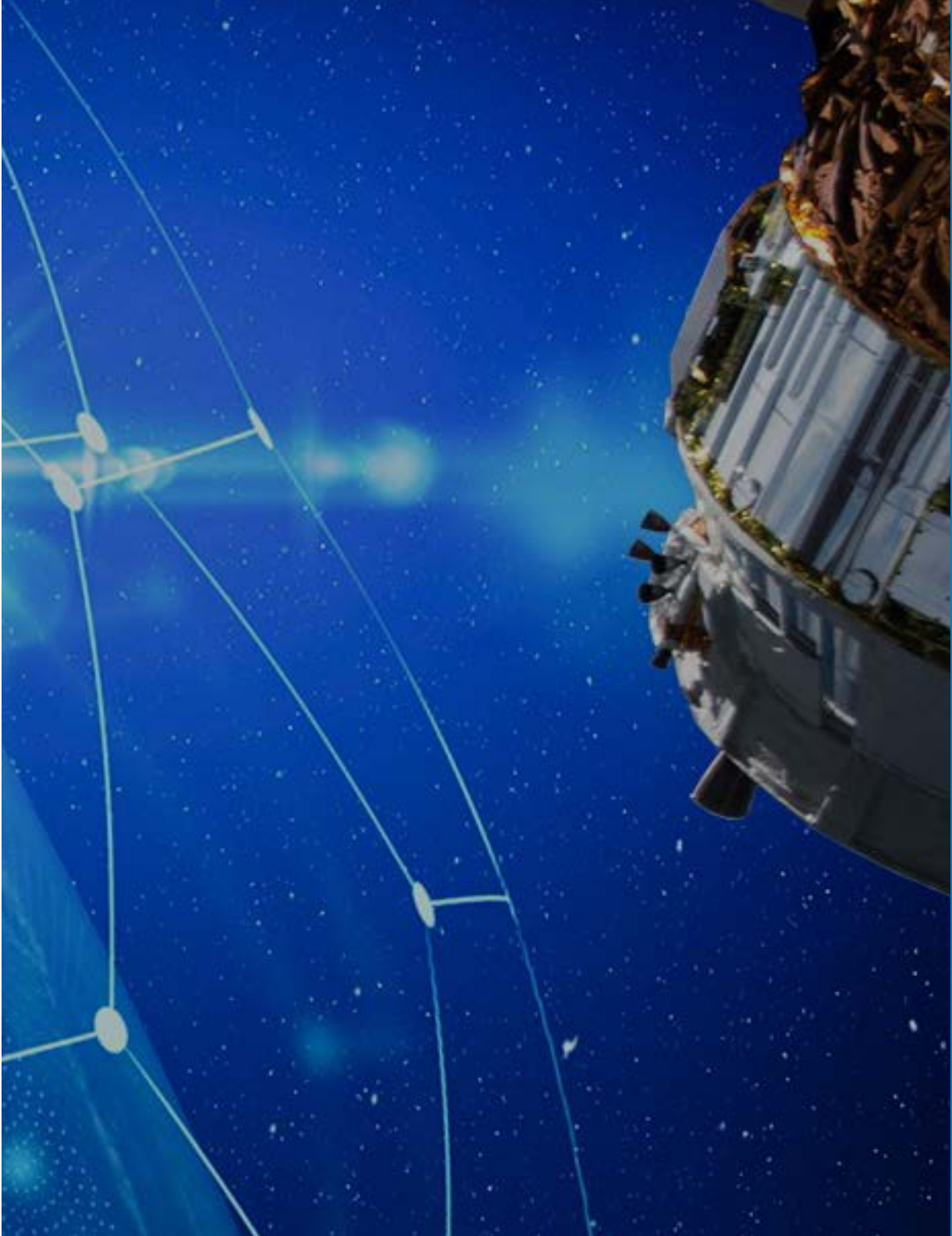
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What is Topnet Live?

Topnet Live supplies a wide range of global GNSS correction services, with a variety of subscription packages, designed to meet the unique needs of our customers by providing accurate and reliable positioning information.

Topnet Live is a real-time GNSS correction service delivering high quality data to GNSS receivers used for surveying, construction, GIS, mapping, OEM, system integrators and agricultural applications on a worldwide scale. Fully interoperable with all makes of network capable rovers, subscriptions are made easily available through the Topnet Live website.

Topcon Positioning Group operates and monitors all Topnet Live networks. Topcon's geodetic specialists and professional standards ensure high quality correction data is globally delivered to each GNSS receiver.

Topnet Live Solutions



Construction

Eliminating on-site base stations, Topnet Live is increasingly employed in high-profile construction projects. Large highway construction projects, airport runways and machine control operations all benefit from the reliable accuracy and performance of Topnet Live GNSS reference networks.



Agriculture

Topnet Live networks deliver consistent, high-precision positions to precision agriculture machines used in applications across the crop cycle such as soil preparation, seeding and crop care. Equipped tractors, sprayers, spreaders and harvesters benefit from fast initializations and reliable positioning any time of the day or night.



Survey

Topnet Live delivers high-accuracy positioning to professional surveying and engineering applications such as land surveys, engineering surveys, GIS and mapping. Topnet Live removes the need for individual base stations, dramatically increasing production and safety.



OEM – System Integrators

Topnet Live is a global positioning correction service for system integrators, product designers and OEMs. It is ideal for scalable, precision GNSS positioning needs for applications such as automotive, Industrial IOT and autonomous robotics.



Technology Overview

In order to provide precise positioning accuracy, a GNSS receiver needs to compensate for inaccuracies caused by satellite constellations, receiver hardware and atmospheric conditions. These inaccuracies can be calculated by a network of fixed reference stations that constantly receive GNSS data.

This correction information is then broadcast to GNSS receivers as a correction service. Topnet Live is Topcon's GNSS correction service and consists of the reference station network, the correction calculation software and the correction broadcast service.



Constant Coverage

Both types of networks offer advantages and disadvantages. That is why Topcon designed and developed a service to provide its customer access to both systems simultaneously, even switching between automatically as reception changes. This means the customer always has the best of both systems and a truly global service.

Full-Constellation Service

The Topcon reference station network uses all four GNSS satellite systems: GPS, GLONASS, Galileo and BeiDou. This ensures the best accuracy and reliability, often referred to as a full-constellation service.

	NETWORK RTK	PPP
+	<ul style="list-style-type: none">Provides survey-grade accuracyQuick start-up	<ul style="list-style-type: none">Global coverageSeamless coverage – just one subscription required
–	<ul style="list-style-type: none">Requires dense local networkRequires individual subscriptions to each network	<ul style="list-style-type: none">Less accurate than RTKSlower start-up than RTK



Why Topnet Live?



Topnet Live is a truly global solution, providing correction service anywhere with the combination of global PPP and local NRTK networks.



NRTK networks are operated by Topcon and its partners to provide coverage in all major regions of the world.



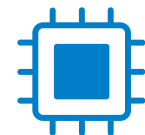
Customers can have a single subscription that provides borderless service which automatically switches between NRTK networks



Topnet Live is managed by Topcon's own network and geodesy experts, which ensures a precise and reliable always-on service.



Topcon's OEM GNSS boards can be preconfigured for immediate use by system integrators' customers, with flexible subscription and licensing options to suit the exact need.



The entire solution is designed to be scalable, so system integrators do not need to limit locations or numbers of customer.



Skybridge

Skybridge allows subscribers to combine RTK and PPP correction services



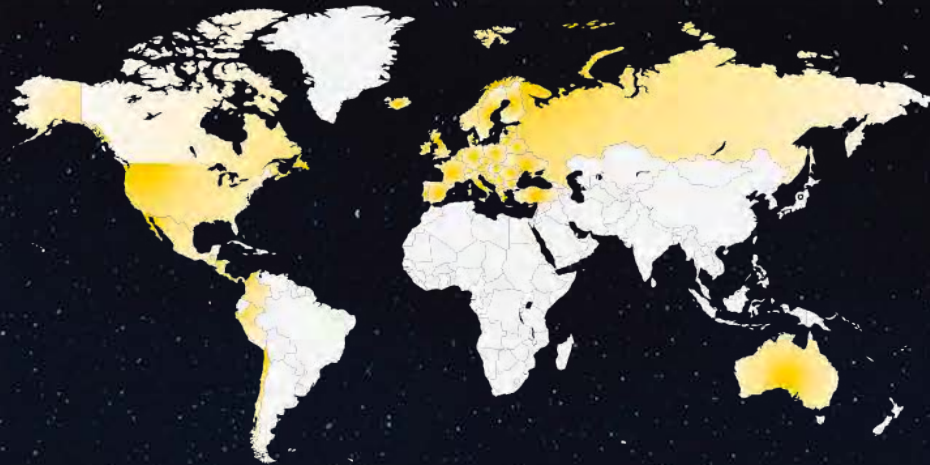
Realpoint

Provides greater accuracy and quick start-up time



Starpoint

Provides the service anywhere on the planet, independent of local networks



Topcon manages, operates and monitors all reference networks.



Realpoint



Starpoint & Starpoint Pro

The Best of RTK and PPP

	REALPOINT	STARPOINT	SKYBRIDGE
Correction Type / Delivery	RTK with NTRIP	PPP with L-Band	RTK with Starpoint backup
Coverage	Local	Global	Global
Accuracy	2 cm	4–10 cm	2–4 cm
Initialization Time	Seconds	10–30 mins	Seconds
Applications	Surveying, Construction, Machine Control, Agriculture, OEM, Industrial IOT and Autonomous Robotics	Machine Control, Agriculture, OEM, Surveying in Remote Areas, Automotive, Industrial IOT and Autonomous Robotics	Surveying, Construction, Machine Control, Agriculture

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Trust Topcon

Topcon is the ideal partner for developing advanced solutions for your positioning and machine control challenges. Our experience, technical expertise and overall company strength make us uniquely qualified to provide enhanced automation technology and ultimately drive your customers' productivity to higher levels—along with your market share.

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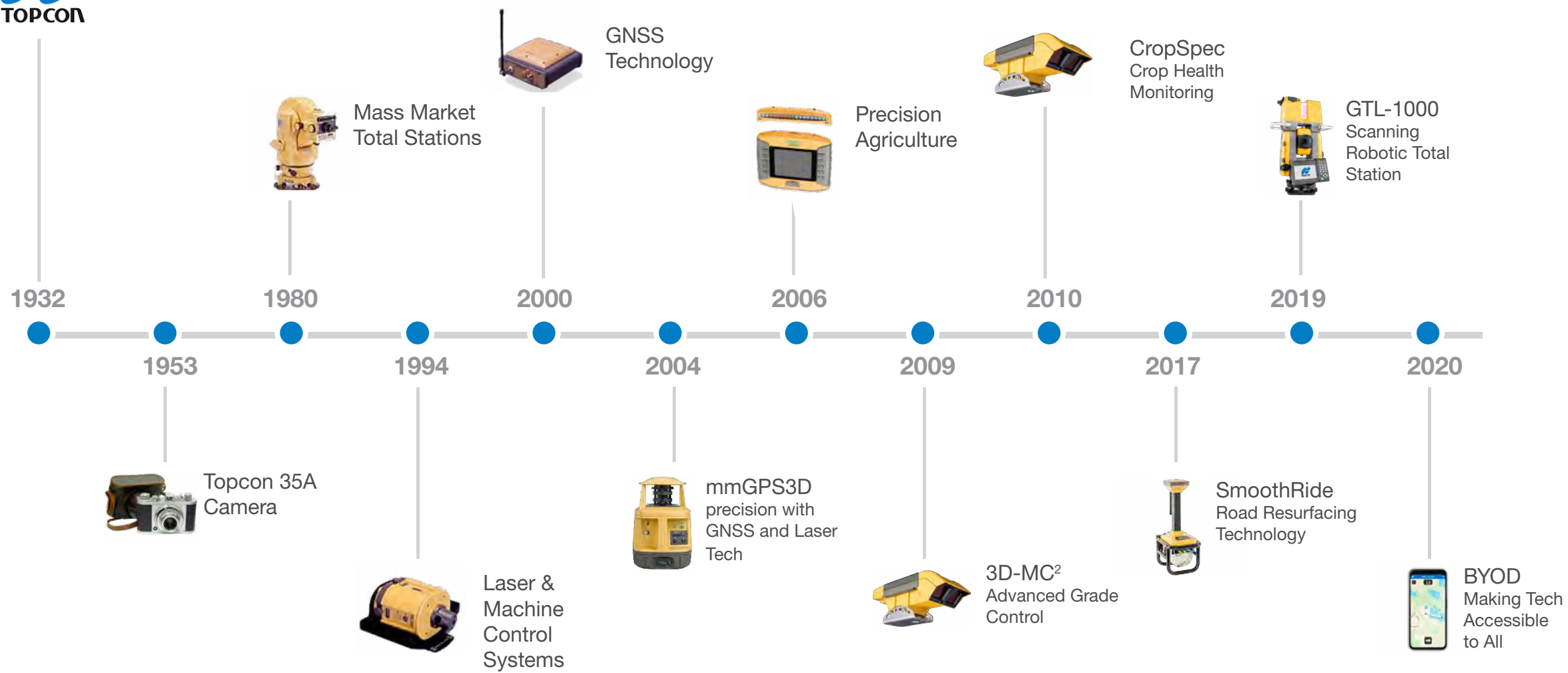
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WHY TOPCON

Topcon Corporation History



Founded
in Tokyo



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topconpositioning.com

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