

The Boundless Architecture: Next-Generation Open GIS

The geospatial industry—and all the companies and organizations who have utilized geospatial information to power their businesses and meet their operational goals—has seen an explosion in location data. And as these enterprises try to keep pace with this expanding and demanding environment, they're finding their technology options are limited. Proprietary GIS is too restrictive, costly and inflexible, incapable of addressing today's volume and variety of data; and the Internet of Things will bring even more challenges. On the other hand, unsupported open source geospatial software requires a level of expertise beyond that of most in-house organizational capacities.

After a decade of providing expert consulting services to help organizations optimize their use of open source GIS, Boundless Spatial has expanded its offerings with a family of commercially-supported, open source products that constitute the next-generation of GIS.

Next-generation GIS combines proven, open source software with third-party GIS data, applications, and resources in an open, scalable environment. The goal is to enable more organizations, and more people within those organizations, to get the most from their geospatial data.

Shortcomings of Both Proprietary and Unsupported Open GIS

Today's leading GIS solutions were built on technology from a time when both data and the requirements of that data were far simpler. While highly functional, these solutions are also proprietary, hard to scale, costly to use, and unable to keep pace with today's mobile, big data, and containerized technologies.

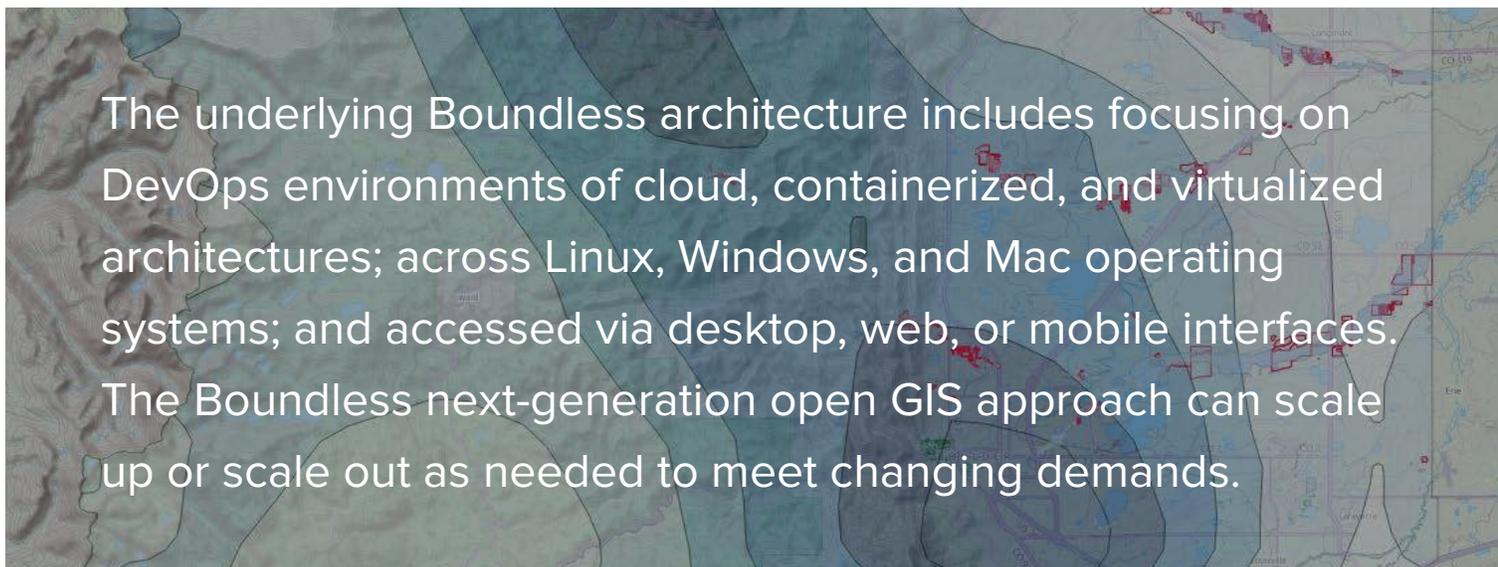
Open source geospatial solutions address the shortcomings of proprietary solutions, delivering:

- » Cost savings compared to the licensing models of proprietary systems
- » Standards-based interoperability with existing software and architectures
- » Scalability without penalty
- » Flexibility and the avoidance of single-vendor lock-in
- » Greater reliability through increased scrutiny of software code
- » Compatibility with modern IT

But implementing open GIS approaches has traditionally demanded DIY capabilities that have placed it beyond the reach of many organizations. In addition, the transition to an open system historically required an abrupt, rip-and-replace effort that is both daunting and risky.

Boundless' next-generation GIS approach delivers commercially supported open source GIS: our training, support, documentation, and access to tools, technologies, and partners make open source more practical and usable by more companies. This next-generation GIS makes location-based data easier to manage, manipulate, and use by any GIS professionals.

Boundless also enables organizations to adopt a hybrid architecture, one that implements open source alongside existing proprietary geospatial software. With this hybrid approach, migration to open source is less risky, smoother and without interrupting operational tempo.



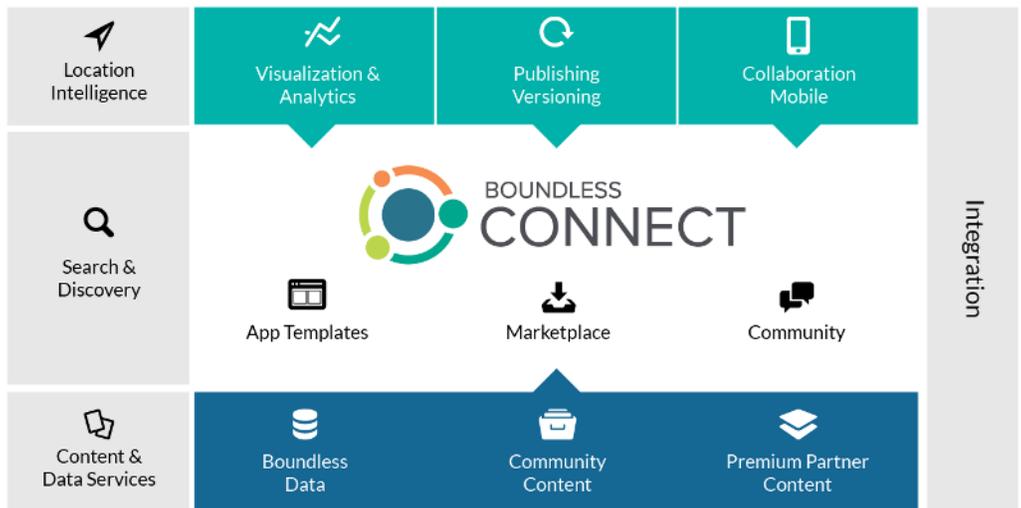
The underlying Boundless architecture includes focusing on DevOps environments of cloud, containerized, and virtualized architectures; across Linux, Windows, and Mac operating systems; and accessed via desktop, web, or mobile interfaces. The Boundless next-generation open GIS approach can scale up or scale out as needed to meet changing demands.

The Boundless Architecture

The Boundless ecosystem is designed to be an easy onramp to open GIS, ensuring that enterprises and organizations of all sizes and disciplines can succeed in leveraging the power of location intelligence

The underlying Boundless architecture—combining open technology with a robust ecosystem—operates in the context of today's modern IT world. This includes focusing on DevOps environments of cloud, containerized, and virtualized architectures; across Linux, Windows, and Mac operating systems; and accessed via desktop, web, or mobile interfaces. The Boundless next-generation open GIS approach can scale up or scale out as needed to meet changing demands.

The chart below shows the Boundless architecture for next-generation open GIS.



At the heart of the ecosystem is Boundless Connect—the first complete, open, cloud-ready platform for geospatial content discovery, access and collaboration. Boundless Connect contains datasets, tutorials, app templates, cartographic styles, content subscriptions, and access to technical support to ease the transition to an open or hybrid GIS environment. Boundless Connect will serve as the foundation for the next-generation open GIS ecosystem, integrating and enhancing the value of both Boundless and open source assets.

The Boundless ecosystem is open to a global community of users who can publish and consume content provided by Boundless, its partners, and other community members. This diversity of data sources makes the geospatial data more useful in a wider range of situations.

Boundless Connect interacts with other Boundless products, including:

- » Boundless Desktop so GIS Professionals perform data management, robust analysis and cartographic map production
- » Premium web-based content via Boundless Exchange, designed for users who are not geospatial experts
- » Boundless Suite for managing data and building applications across web browsers, desktops, and mobile devices

As the Boundless ecosystem evolves, it will include the Boundless SDK, for creating web applications with widgets and analytical functions, and the Boundless API. The API will traverse the entire architecture, enabling third-party and proprietary vendors and service providers to participate in the Boundless ecosystem.

Become a Part of the Next Generation of GIS

The Boundless next-generation GIS approach is open, cloud-based, and scalable. It is a rich ecosystem surrounded by commercial support and resources from the community and partners. Utilizing the Boundless approach, organizations can break free from proprietary geospatial systems without worrying about being left to fend for themselves in a DIY open source wilderness.

Whereas proprietary GIS vendors act as providers in a one-way exchange, the next-generation GIS ecosystem is a two-way process that won't be built by Boundless alone. And the best way to learn more about the Boundless next-generation GIS is to become a part of it. To get started, log into [Boundless Connect](#) today. We look forward to seeing you there.

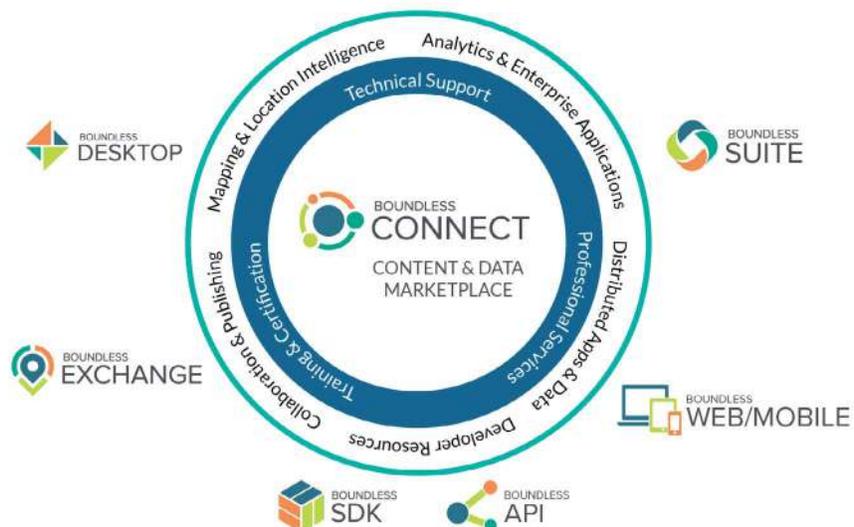
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About Boundless

The next generation of geospatial data requires a next-generation GIS. At Boundless, we're committed to delivering the ultimate, open GIS ecosystem. Our core concepts include:

- » **Be open. Always.** Closed proprietary systems benefit only the vendor. Boundless is an open company. Our platform is based on software published using OSI-approved licenses and standards.
- » **Customers should be able to migrate at their own speed.** Boundless' focus on interoperability and extensibility enable you to preserve your existing investments and data and move to an open system at your own pace.
- » **Precise location data yields unprecedented value.** Boundless' systems bring the power of digital analytics to the physical world. We enable firms to continuously capture precise location and activities data, offering unprecedented scale, focus, and visibility into the workings of your organization.
- » **Content curated, location services simplified.** Boundless is your one-stop shop for all of your geospatial tools, content, and services. Our carefully crafted suite of enterprise class web mapping services and content is intuitive and simple; the way GIS should be.

Boundless is the leader in commercially supported, open source geospatial software. From consulting to training to 24-hour support, the Boundless team is dedicated to transferring our knowledge to you to ensure your success.



Services

Our expert technologists work side-by-side with your team to guarantee best practices are employed at every phase of your project. We offer both assisted and full-service professional services to make your GIS project successful.

Support

We take the risk out of open source. Boundless provides experts to support your deployment of the open source platform, providing 24/7 helpdesk support and expert advice for your organization. In addition, Boundless Connect provides you a rich knowledge base, documentation, forums, and how-to's. You can “connect” with the Boundless experts to help make the most of your open source GIS platform.

Training

Start building your skills and reputation. Today's GIS professionals must be competent in integrating geography, data and systems to solve a wide range of problems for business, healthcare, insurance, government, and other industries.

Boundless offers a wealth of instructor-led and self-paced training courses and workshops that will teach you how to use geospatial data to solve problems, identify opportunities, and optimize work-flows. Authored by Boundless experts, Boundless training and certification courses encompass dozens of videos, exercises, and use cases that can have an immediate impact on your professional development.