www.SpaceCurve.com

Common Alerting Protocol Systems

Presented By: J. Andrew Rogers, CEO

Email: andrew@spacecurve.com Phone: +1 650.387.7700

Robust Warning Systems

Integrating global emergency management and warning systems mandates resilient architectures designed to scale.

- Diversified and survivable communications mechanisms
- Distributed server infrastructure that can scale to peak loads while applying alerting policies in near real-time
- Pervasive integrity checks and authentication, coupled with strong resistance to denial of service attacks.

SPACE CURVE

Strengthening The Weakest Links To Maximize Success

The Common Alerting Protocol is a mission-critical standard that demands a set of standardized and high-quality system implementation components. Leveraging well-tested common components to the extent practical maximizes probability of success.

SPACE CURVE

Addressing The Issues

Interoperability		Scalability		Accessibility
Rigorous open source CAP standard implementation improves system interoperability and adoption rate.	+	Distributable and decentralized spatial database platforms solve massive-scale aggregation, analysis, and policy issues.	+	Client and visualization tools and library add-ons maximize compatibility and minimize the effort to required to support diverse systems.

SPACECURVE

Improving Interoperability

Integrating global emergency management and warning systems mandates resilient, well-tested architectures designed to scale.

- Complete Java implementation of the CAP v1.1 standard
- Extensive built-in conformance validation facility for any CAP message, including recommendations and optionals
- Open source licensing

SPACE CURVE

Full-Featured Implementation

- Easily customized, extended, and embedded in a wide range of applications by design
- Implements cryptographic authentication features, allowing secure deployment in mission-critical systems
- Extensive built-in conformance validation facility for any CAP message, including recommendations and optionals

SPACECURVE

Scaling Aggregation

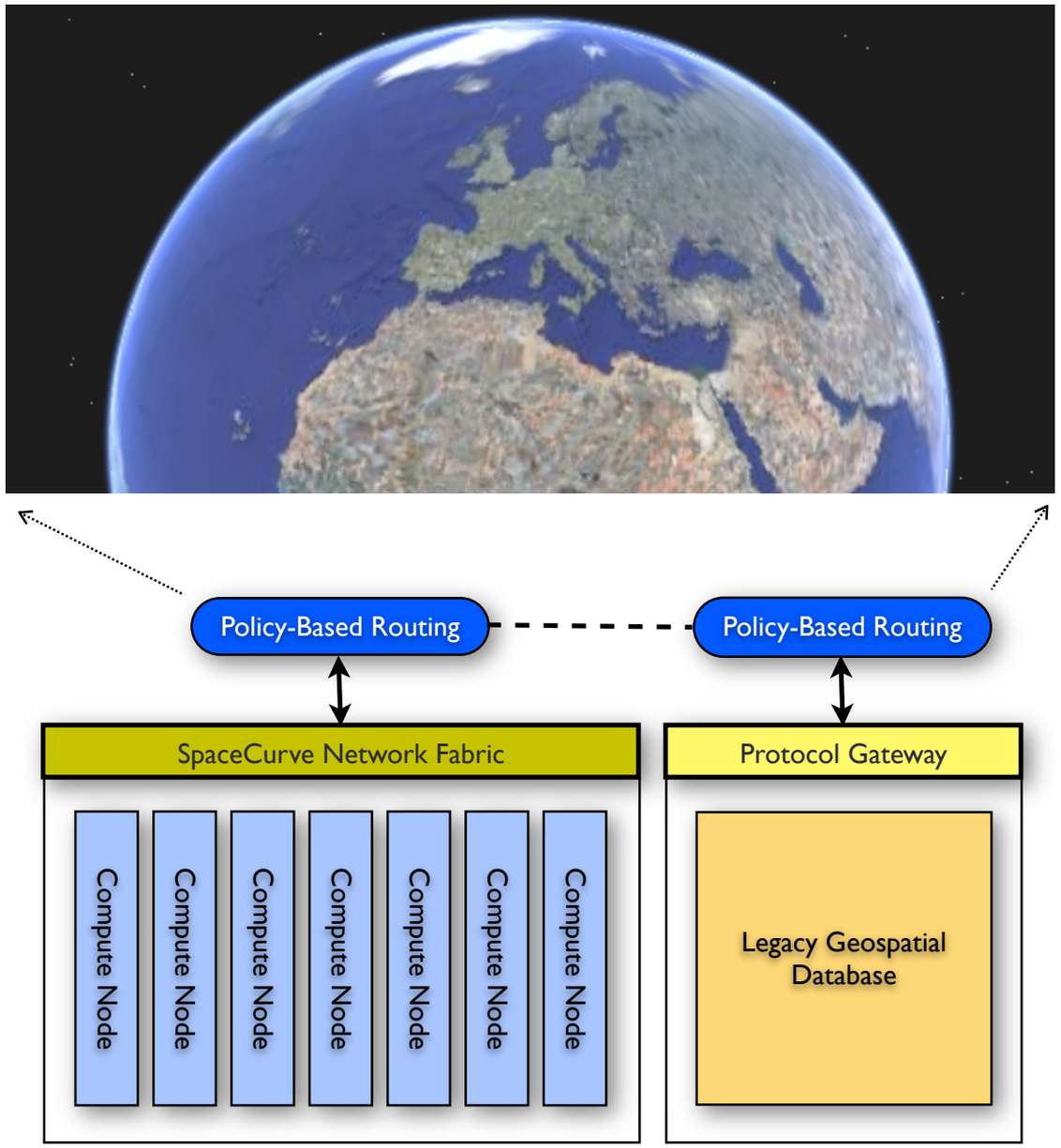
Reliably managing large quantities of very dynamic and relatively complex spatial data is notoriously difficult.

- CAP alerts frequently involve polygons relations, which are very expensive to search in a conventional database
- Frequent update rates reduce the useful decentralization of an intrinsically distributed problem, a bottleneck
- The large number of potential publishers make the problem intrinsically distributed

SPACE CURVE

Decentralized Spatial Database

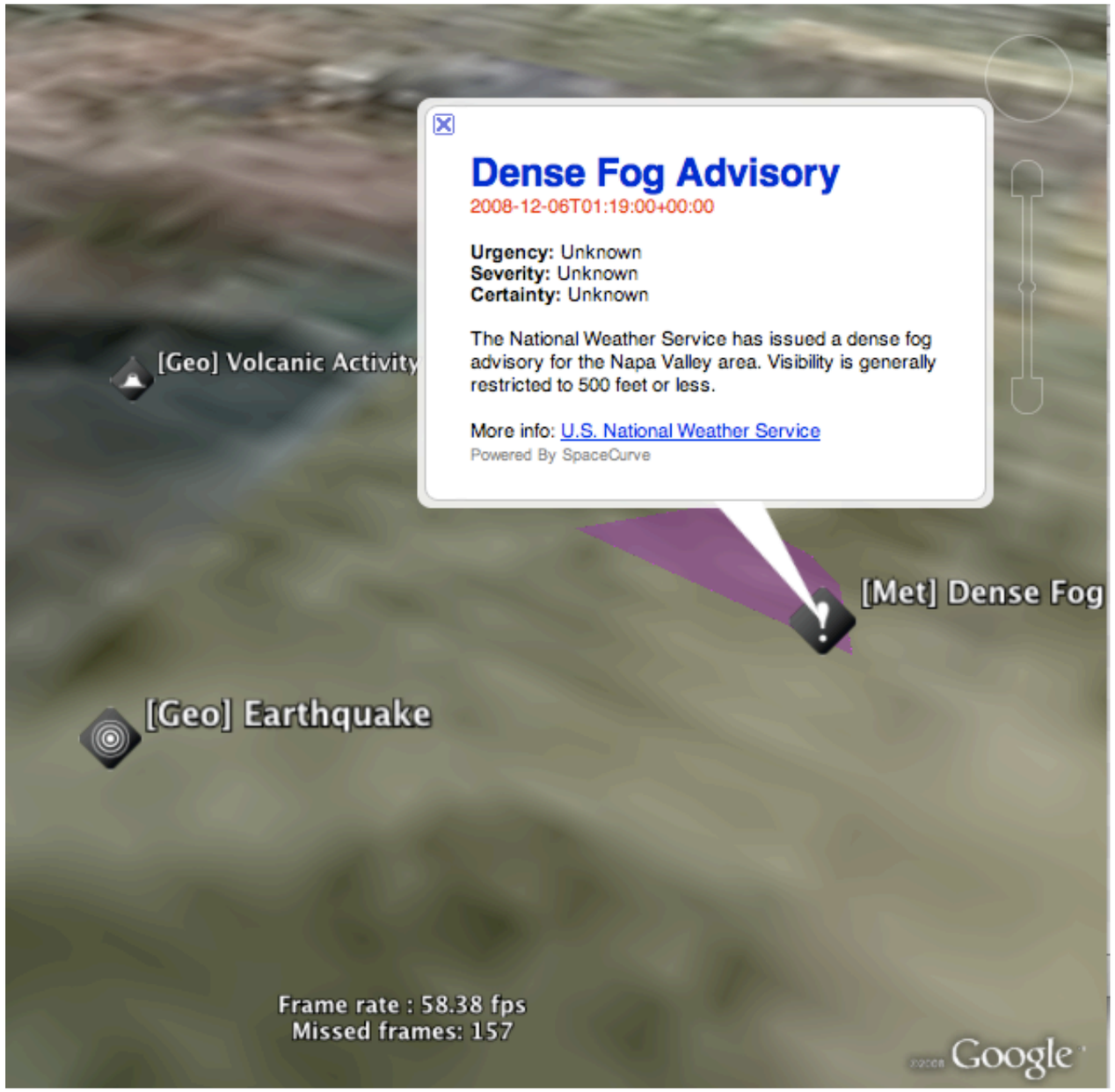
SpaceCurve uses a new kind of distributable database technology that allows CAP publishers to directly publish into a contiguous, global-scale aggregation system while maintaining control of their data. This can be done using our systems or applying a gateway to legacy database systems.



SPACECURVE

Rich Client Interfaces

Excellent integration with client environments like Google Earth while being presentation layer agnostic.



SPACE CURVE