

Fast, Secured & Reliable Data Transmission

Genesis Codes Inc.

- Silicon Valley, CA
- Unique Entity ID: XN6MUPYJVM68
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- All US Citizens, Employee Owned,

Demo Video



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Capability Description:

- 5x-50x Speed Acceleration over IP Networks & Internet.
- Low Latency, High Reliability (URLLC)
- Data Integrity against Packet Losses under DDIL
- Leverage Multi-Path, Multi-Node, Mesh Network
- LPD/LPI, Stealth Comm & Data Obfuscation
- Multi-Level Data Security beyond Encryption
- Lower EMS Signature, Receiver stay Completely Silent
- Data Coding @ Sender & Receiver
- Scalable, Adaptable to any Comm technologies.

What, Why How, Who,

- A new Data Transport Protocol & Error Correction Code to accelerate data transmission over any IP network by an average of 10 times.
- Standard TCP Protocol has performance bottlenecks.
- No action results in poor efficiency in handling big data challenges from global C5ISR operations.
- A breakthrough in Error Correction Code leads to a new way to utilize UDP transport, faster & reliable.
- Feasibility test demonstrated 10X improvement.
- DoD C5ISR community, Satellite Comm, Underwater Acoustic Comm, and more

Value, Cost, Risk,

- Efficient Collaboration among Global Forces: Billion \$\$\$.
- Ultra-Resilience in Contested Networks
- Data Confidentiality, Integrity & Availability.
- Network Infrastructure Resilience and Survivability.
- Enhanced Data Security.
- A New Internet Standard: Faster, Securer, More Reliable
- Seeking \$2M to mature this foundational technology
- Building Block to support wide applications
- Global Competition for Talent, IP and Know-How

Reliable, Secured & Scalable Data Storage

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Capability Description:

- 11 9s Data Durability with Cost Saving up to 60%, Compared to leading Cloud Storage Suppliers
- Higher Data Durability Achieved without Higher Cost
- Infrastructure Resilience and Survivability.
- Large-Scale, Distributed Storage Infrastructure.
- Multi-Level Data Security beyond Encryption, Date Protection Against Insider Attacks.
- Reduce Total Cost of Ownership with Lower Operating and Maintenance Cost
- Enable Secured Operation over Public Commercial Storage Networks.

What, Why How, Who,

- A new data compression, erasure coding, and data encryption to redefine the distributed data storage.
- Standard Erasure Coding has its limits on scalability & computational complexity.
- W/o action results in poor efficiency and limited scalability for data storage, leading to higher costs.
- Breakthrough in Erasure Code: a new paradigm
- Support large-scale (>1000) data storage nodes.
- Almost every organization faces big data challenges in data storage. Especially, DoD C5ISR operations.

Value, Cost, Risk,

- Cost Efficient Data Storage for DoD and more Billion\$\$.
- Data Confidentiality, Integrity & Availability.
- Data Infrastructure Resilience and Survivability.
- Enhanced Data Security.
- Seeking \$2M to mature the foundational technology
- Building Block to support wide applications
- Global Competition for Talent, IP and Know-How