



## **Immutable On-Premise Backup Storage Server**

TO: Information Technology Department, City Hall  
38 1st St West, Dickinson, ND 58601

SBA 8(a) Certified – Expires September 30, 2026 SBA Case Number: C0069X  
SBA HUBZone Certified

GSA MAS Contract: GS-35F-521BA  
GSA STARS III Contract: 47QTCB21D0397

**Submitted By:**

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**E-Logic, Inc.**  
**Physical Address:** 2000 Pennsylvania  
Avenue NW, STE 7000, Washington DC  
20006.

**Authorized Company Representative:**

**POC 2:** Luis Padilla  
**Title:** President CEO  
**Email:** Lpadilla@E-LOGIC.US  
**Phone:** +1 (202) 499-7837

**SAM UEI:** G8SNQ1CZGNX5  
**DUNS:** 786965876  
**CAGE Code:** 4QTF4  
**TIN/EIN:** 51-0629765

**Date:** 12:00 Noon, Wednesday, August 20, 2025

The terms and conditions contained in the RFP are acceptable to be included in the award document without modification, deletion or addition. We agree to hold the prices in this quotation for 30 calendar days from the date specified for receipt of proposals. We Agree with all terms, conditions, and provisions included in the solicitation.

We agree to furnish any or all items upon which prices are offered at the price set opposite each item.

Our proposal meets the RFP as written with no deviations.



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## Written Response

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## Immutable On-Premise Backup Storage Server

Proposal in the Same Numerical Order as Issued

**Proposer (Prime):** E-LOGIC (SBA 8(a), HUBZone)

**TIN/EIN:** 51-0629765 **DUNS:** 786965876 **CAGE:** 4QTF4 **SAM UEI:** G8SNQ1CZGNX5

**OEM/Brand Proposed:** Object First — Ootbi immutable object storage appliance (2U, 432 TB model)

**Bid Identification:** “BID – Immutable On-Premise Backup Storage Server” (City of Dickinson, ND)

### Authorized Signatory:

Name/Title: Luis Padilla, President and CEO

Signature/Date: \_\_\_\_\_

Official Business Address: 2000 Pennsylvania Avenue NW, STE 7000, Washington DC 20006.

Email/Phone: Lpadilla@E-LOGIC.US / +1 (202) 499-7837

## 1) Introduction / Instructions to Proposers (Acceptance & Return of RFP)

We acknowledge this entire set of documents constitutes the RFP, and we are returning responses in the same numerical order in which it was issued, complete and signed by an authorized officer. We will submit electronically (single PDF) by 12:00 noon, Wednesday, August 20, 2025, per the RFP, or provide one original + one copy if delivered via hardcopy, as instructed. We will not contact other City staff or elected officials outside the designated process.

## 2) Scope of Services

### 2.1 On-Premise Immutable Backup Storage Sizing & Design

- **Target capacity:** Minimum 400 TB to hold immutable backup data — we propose Object First Ootbi 2U (432 TB RAID-6 capacity) which meets/exceeds this minimum. Configuration: 22×24 TB enterprise HDDs in RAID-6 with 2×24 TB hot spares and 2×480 GB SSD (RAID1) OS disks, plus 1×1.6 TB NVMe cache.
- **Compatibility:** Designed for Veeam Backup & Replication and the City’s environment (Hyper-V, ~70 TB live data, Hitachi E590 SAN).
- **Sizing rationale:** 432 TB usable capacity (RAID-6) supports immutability windows and multiple synthetic full chains for ~70 TB source data with headroom for growth.

## 2.2 Installation Directions (ensuring best practices &

**availability)** We will deliver step-by-step directions covering:

1. **Rack & power:** Install Ootbi rails; mount 2U chassis; dual PSUs to redundant PDUs; label asset.
2. **Network:**
  - Management: assign IPMI and Web-UI management IPs on dedicated management VLAN.
  - Data: connect Dual 25 Gb SFP28 ports (LACP or active/standby per City standard) to core/backup network; enable jumbo frames if standard; validate MTU end-to-end.
  - Auxiliary: Dual 10 Gb Base-T ports available for management/auxiliary paths.
3. **Software & hardening:** initial cluster build; MFA enablement, RBAC roles, time sync, NTP, syslog/monitoring integration.
4. **Veeam integration:** create S3 object repository, enable immutability (object-lock), integrate via Veeam repository wizard; test job writes/reads; validate retention enforcement.
5. **Cutover & availability:** schedule maintenance window; seed first backup chain; verify restore tests; handoff.

## 2.3 Connectivity Drawings (if multiple nodes are utilized) We will

provide labeled connectivity drawings showing:

- Dual 25 Gb SFP28 uplinks from each storage node to the City's switches (port IDs/VLANs/LAG).
- Management/IPMI connections.
- Logical view of Veeam components to the Ootbi S3 endpoint(s).

## 3) On-Premise Immutable Backup Storage — Requirement-by-Requirement Technical Compliance

### Capacity & Data Protection

- **Minimum 400 TB storage space** — Meets/Exceeds.
  - **RAID-6; tolerate 2 drive failures without data loss** — Meets.
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### Veeam Compatibility

- Fully compatible out-of-the-box with Veeam Backup & Replication Essentials — Meets.
- Compatible to leverage immutable snapshots (object-lock) — Meets.
- Integrates using officially supported APIs (including SOSAPI) — Meets.

### Networking & Power

- Dual 25 Gb SFP+ ports with modules included — Meets.
- Two 10 Gb Base-T ports — Meets.
- Dual PSU (power redundancy) — Meets.
- Rack rails & hardware — Meets.

### Support / Warranty

- 5-Year Support Agreement (drive replacement covered) — Meets.

### Security & Architecture Capabilities

- **Native immutability:** Data is locked at the storage layer using S3 object-lock. The immutability enforcement is fully on-premises and does not rely on external cloud services, external OS hardening, or third-party tools.
  - **Purpose-built appliance:** Ootbi is a dedicated immutable storage appliance engineered specifically as a Veeam backup target. It is not a general-purpose NAS or SAN, ensuring the environment is hardened and tuned only for backup workloads.
  - **On-premise immutability enforcement:** All immutability enforcement occurs locally on the appliance. Even with administrative access, backup data under immutability cannot be altered or deleted until its retention period expires.
  - **Instant recovery / high-speed restores / rapid ingestion:** The system is designed to ingest backup data at high throughput via 25 GbE links and NVMe cache acceleration. Synthetic fulls and restores run rapidly due to architecture tuned for Veeam's parallel processing and block-level operations.
  - **Retention enforcement at storage level:** Immutability settings are enforced within the storage layer itself, preventing accidental or malicious shortening of retention periods once backups are written.
  - **Block root-level deletion:** Even administrators cannot force deletion of data protected by immutability. Attempts to do so are blocked at the storage engine level.
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- **No shell access required:** Administration is performed entirely through a dedicated web-based GUI. There is no need for shell/CLI logins, reducing attack surface.
- **Zero Trust with RBAC & MFA:** Administrators are assigned only the minimum roles needed; multi-factor authentication is enforced for console access; and no default accounts remain active. This enforces Zero Trust principles.
- **Air-gap-like protections:** Immutability, RBAC, MFA, and absence of shell access provide protections equivalent to air-gapping, without requiring offline media.
- **NIST/CISA validation:** The solution aligns with CISA “Secure by Design” and NIST cybersecurity guidelines. Controls such as immutability, MFA, RBAC, and tamper-proof storage are integral to compliance.
- **Dedicated Web GUI:** All administration is performed through an intuitive web interface designed for backup/storage administrators. No Linux or third-party CLI expertise is required.
- **Scalable node architecture:** Additional Ootbi nodes can be added seamlessly to expand capacity and performance. The architecture is built for linear scaling.
- **Automated updates & self-healing/alerting:** The system provides guided, automated updates via the Web-UI. Health monitoring, alerting, and error correction features maintain resiliency with minimal administrator intervention.
- **Multi-tenant repositories:** Multiple isolated storage buckets can be configured for separate departments, agencies, or workloads, ensuring policy isolation and compliance enforcement.
- **Linear performance scaling:** As nodes are added, both capacity and throughput scale predictably, without complex reconfiguration.
- **Capex-friendly:** Immutability is an included feature. No subscription fees or licensing renewals are required to maintain immutable functionality.
- **Avoidance of recurring fees unrelated to hardware expansion:** Costs are limited to physical expansion (additional nodes or capacity). There are no ongoing fees tied to immutability or retention windows.

#### 4) Existing Site Details — Compatibility Confirmation

- Hyper-V Failover Cluster VMs — supported via Veeam backups to Ootbi S3 immutability.
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- Veeam Backup & Replication — fully supported and certified as Veeam Ready — Object with Immutability (incl. SOSAPI).
- ~70 TB live data; Hitachi Vantara E590 SAN — proposed capacity and performance leave ample headroom for retention growth and synthetic fulls.

## 5) Relevant Qualifications (Solution & Team)

- **Solution qualifications:** Purpose-built immutable object storage for Veeam; certified as Veeam Ready — Object with Immutability with SOSAPI support.
- **Security posture:** MFA, RBAC, no SSH/root, immutable object-lock at storage layer; aligns with CISA/NIST Secure-by-Design and Zero Trust principles.
- **Company qualifications:** e-LOGIC is SBA 8(a) & HUBZone; experienced in turnkey backup & DR projects for public sector entities.

## 6) Relevant Experience & References

### 1. Refrence One:

**Contrat Number:** FAFA8307-21-F-0138

**Dollar Amount:** \$1,439,764.35

**Client:** DEPT OF THE AIR FORCE

**POC:** Ebonie A. Charles

**POC Email:** [ebonie.charles@us.af.mil](mailto:ebonie.charles@us.af.mil)

**POC Phone:** 210-925-5127

### 2. Refrence Two:

**Contrat number:** 12314424F0621

**Dollar amout:** \$165,556.8

**Client:** USDA

**POC:** Leann Kuhl

**POC Email:** [leann.kuhl@usda.gov](mailto:leann.kuhl@usda.gov)

### 3. Refrence Three:

**Contrat Number:** 1333BJ23F00282024

**Dollar Amount:** \$523,882.47

**POC:** Okemia McBride

**Client:** Department of Commerce Patent and Trademark Office

**POC Email:** [okemia.mcbride@uspto.gov](mailto:okemia.mcbride@uspto.gov)

**POC Phone:** 571-270-0453

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## 7) Scalability & Sustainability

The proposed solution is designed not only to meet the City's current backup storage requirements, but also to sustain and scale as the environment grows:

- **Capacity scaling:** The Ootbi architecture allows the City to add additional nodes to expand capacity linearly. For example, if backup requirements increase due to data growth or additional workloads, new appliances can be introduced seamlessly, without disrupting existing operations.
- **Performance scaling:** Throughput and ingest rates increase as new nodes are added. This ensures backup and recovery performance scales with data volume, avoiding bottlenecks.
- **Predictable growth model:** The solution provides clear, predictable scaling — both in capacity and cost. The City can plan for growth over 5–10 years knowing additional investment only occurs when more storage nodes are needed.
- **Operational sustainability:** Administration is simple via the Web-UI, requiring minimal specialized training. Updates are automated, and built-in monitoring ensures the environment remains resilient without high ongoing labor costs.
- **Financial sustainability:** The model is capital expenditure–friendly. Immutability is built in, so there are no mandatory subscriptions or hidden recurring costs that could strain future budgets. This makes it easy for the City to plan long-term.
- **Alignment with targeted goals:** The City's stated objective is to strengthen resiliency against cyberattack. Immutable storage with Zero Trust enforcement ensures recoverability even in ransomware or insider threat scenarios. As the City modernizes and grows its IT footprint, the storage expands with it, ensuring future goals around digital services and data protection remain secure and achievable.

## 8) Deliverables

1. Immutable backup storage appliance (configured as specified).
  2. Installation Directions (full step-by-step, as outlined in §2.2).
  3. Connectivity Drawings (as outlined in §2.3; single- or multi-node variant as applicable).
  4. Veeam integration and validation results (write/read/restore & immutability enforcement checks).
  5. Support enrollment confirmation (5-year NBD + 24×7 access).
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## Cost of Project

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# COST PROPOSAL

PROPOSAL #	DATE	EXPIRATION DATE
117417	08/20/2025	09/19/2025

ADDRESS	SHIP TO
Information Technology Department at City Hall 38 1st ST West, Dickinson, ND 58601	Information Technology Department at City Hall 38 1st ST West, Dickinson, ND 58601

#	DESCRIPTION	QTY	UNIT PRICE	TOTAL
1	<b>Brand name:</b> PRODATIX <b>Part number:</b> <b>Item description:</b> Object First Ootbi Series immutable object storage appliance – 2U 432 GB model – retail price  Intel C626 dual socket server motherboard, 2 TB RAM capacity, dual 25 Gigabit Ethernet, USB 3.0 2 x Intel Xeon Scalable Silver 4460 8-core processors (3.2 GHz) 256 GB Samsung 2933 MHz DDR5 ECC server RAM (8 x 32 GB) 22 x 24 TB Enterprise hard drives – RAID 6 – 432 TB capacity  2 x 480 GB SATA SSD – RAID 1 – Dedicated OS disks 2 x 24 TB SAS hot spares 1 x 1.6 TB Enterprise NVME – cache drive Redundant 1,100 watt 80 Plus Titanium power supplies No DVD Rewritable Drive 2 x 10 Gigabit network ports: 10GBase-T – Onboard 2 x 25 Gigabit network ports: SFP+ 25 Gb/port – Card 1 x IPMI management network port 24 hot-swap hard drive bays Object First Linux immutable object storage OS software – accessible  via web browser 5-year Standard NBD warranty & 24/7 – 365-day support	1	\$ 152,606.11	\$ 152,606.11
1	Installation, Configuration, and Training, as required, per RFP.	1	\$ 17,874.00	\$ 17,874.00
Free Shipping				\$ 0.00
TOTAL:				\$ 170,480.11



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