

Real-Time Crime Center (RTCC) Infrastructure Upgrades

Genetec Migration, AI Analytics, and 5G Modernization

Prepared for

Cooper City Council and Broward Sheriff's Office (BSO) / Cooper City RTCC

Attention: Sgt. Bennie Langford

Prepared by

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For Council review and project approval purposes.

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Executive Summary

Zimy Electronics, Inc. (Zimy) respectfully submits this proposal for BSO and the city of Cooper City's consideration and project approval. The recommended scope delivers a modernized Real Time Crime Center (RTCC) foundation that improves operational resilience, enhances investigative capability, and positions the City for future, council-approved expansions.

Primary Objectives

- Advanced AI analytics hardware and software to support license plate recognition (LPR) and facial recognition workflows.
- Migration of the existing video/security platform to Genetec Security Center for unified monitoring, alerting, and administration.
- Replacement of cellular communicators at 25 locations with tested 5G radios, selecting the optimal carrier per site to maximize signal quality and uptime.

Anticipated Benefits

- Improved real-time awareness and faster investigative search through AI-driven analytics and indexing.
- Standardized operations under a single enterprise security platform (Genetec) to reduce complexity and improve maintainability.
- More reliable edge connectivity through 5G modernization and site-by-site carrier optimization.
- Reduced operational risk through monitoring, documentation, and included training and support.

Scope of Work

Item 1 - Advanced AI Analytics Hardware and Software

Overview

Supply, configuration, integration, training, and support for Vaidio AI analytics licensing and two AI servers. Both servers will be installed at the BSO Cooper City branch and configured for integration with the Genetec system.

AI Server Specifications (each)

- Dell PowerEdge R770 (2U) AI server
- CPU: (2) Intel Xeon 6 Performance 6730P 2.5G, 32C/64T, 288M cache, DDR5-6400 (250W)
- Memory: 256GB DDR5 RDIMM, 6400MT/s, dual rank
- Network: Broadcom 57504 quad-port 10/25GbE SFP28 (OCP 3.0)
- GPU: (4) NVIDIA L4, PCIe, 24GB, 72W (passive)
- OS: Ubuntu Linux on BOSS-N1 controller card with (2) M.2 480GB (RAID 1)
- Management: iDRAC10 Enterprise

Capacity and Operating Expectations

- Licenses: 50 Vaidio AI channels available for flexible deployment.

- Initial capacity: The proposed server configuration is expected to support approximately 25 concurrent LPR and facial recognition cameras. This limitation is hardware-based; expanding server resources can increase capacity up to the full licensed count.
- Spare capacity: The server specifications will allow for approximately 20% of buffer overhead for additional resource utilization, as needed.
- Zimy will configure the system for unified, real-time operation and will enable secure iDRAC monitoring on the servers for health and performance visibility.
- Training and support: One full year of unlimited training and support is included at no additional cost to ensure adoption and value realization.
- Software updates: Vaidio licenses include updates for five years, enabling ongoing model and feature improvements.

Vaidio Licensing (5-year term)

Item	Qty	Unit Price	Total
Vaidio Pro Advanced Software License per channel (annual payment; 5-year term, includes maintenance during term)	50	\$418.20 / year	\$20,910 / year
Vaidio Genetec Security Center Plugin software license per client (enables Vaidio search from Genetec Security Desk)	2	\$1,250 (one-time)	\$2,500

Investment - Item 1

AI Servers (2) - Dell PowerEdge R770 @ \$34,634.05 each	\$69,268.10*
Vaidio annual license subtotal (Year 1)	\$20,910.00
Vaidio one-time licensing subtotal	\$2,500.00
Genetec integration add-on (one-time)	\$500.00
Labor / programming / training / support	\$5,000.00
Total due in Year 1 (Item 1)	\$98,178.10
Annual due in Years 2-5 (Vaidio licenses)	\$20,910.00 / year

*Dell server pricing valid until April 2nd. However, due to shortages and uncertainty in supply, availability is not guaranteed if not immediately approved.

Recommendation: A UPS and surge protection is strongly recommended to protect head-end infrastructure from power disruption or surge events. UPS/surge protection is not included in this item but follows below as optional.

Item 2 - Genetec Platform Migration

Overview

Migrate the existing video and security platform to Genetec Security Center, establishing a standardized, enterprise-grade foundation for monitoring, administration, and event response.

Deliverables

- Provision and install Genetec server at the head-end location.
- Update and migrate 25 existing edge servers, including: OS reset and updates, driver updates, Genetec expansion server installation, device naming/programming, and end-to-end testing.
- Install and configure Security Center client application on up to five workstations.
- Configure alerts and events as required by RTCC/BSO operational needs.

- Provide detailed documentation of system architecture and configuration.
- Provide training and support for administrators and operators.
- Negotiated free video licenses in exchange for a 5 year SSA with Genetec

Licensing and Materials Summary

Item	Qty	Unit Price	Total
Genetec Security Center (GSC) Base Enterprise Package (includes Omnicast, Synergis, AutoVu standard; MSRP shown for reference)	1	\$0	\$0
Enterprise camera connections (mandatory Genetec Advantage; MSRP shown for reference)	125	\$0	\$0 (MSRP \$23,750)
Genetec Advantage for 1 Omnicast Enterprise Camera - 5 years	125	\$150	\$18,750
Dell R760 server w/ Windows Server 2025, dual-socket CPU, and surveillance-grade storage	1	\$12,500	\$12,500

Investment - Item 2

Materials	\$31,250.00
Labor / programming	\$13,050.00
Total (Item 2)	\$44,300.00

Assumption: Pricing assumes credentials are available for all existing servers.

Item 3 - Cellular Networking Modernization

Overview

Upgrade existing cellular communications to modern 5G radios across 25 locations. Each site will be evaluated and configured to use the best-performing cellular carrier for that location, improving signal quality and reliability.

Deliverables

- Survey 25 locations to evaluate carrier coverage and select the best-performing provider per site.
- Provision and pole-mount a Peplink Antenna Max with 5G BR1-Mini at 25 locations.
- Provide one pre-programmed spare unit for rapid deployment and replacement.
- Configure SD-WAN and secure connectivity between endpoints and the head-end.
- Test all connections and provide detailed documentation of network architecture.

Materials

Item	Qty	Unit Price	Total
Peplink MAX-BR1-MINI-5GN-T-M-PRM (BR1 Mini 5G)	26	\$475	\$12,350
Peplink ANT-MAX (Antenna Max enclosure/antenna)	26	\$349	\$9,074
PVC, CAT6, and miscellaneous mounting/installation hardware	26	\$175	\$4,550

Investment - Item 3

Materials	\$25,974.00
Labor / programming	\$11,700.00
Total (Item 3)	\$37,674.00

Assumption: Pricing assumes credentials are available for all cameras.

Strategic Partnership and Optional Enhancements

Council-Approved Custom Solutions (RTCC Partnership)

As a Cooper City local business, Zimy is committed to a long-term partnership approach with Cooper City and the RTCC. Beyond the upgrades described in this option, Zimy is prepared to design and deliver additional, approved custom solutions that expand situational awareness while maintaining appropriate governance, cybersecurity controls, and privacy protections.

Voluntary Community Camera Stream Ingestion (Example Use Case)

If authorized by Cooper City and RTCC leadership, Zimy can implement an opt-in program enabling willing city businesses and schools to provide live video streams for RTCC operational use. Zimy would develop and configure the required integrations so that approved streams can be securely ingested and managed within RTCC workflows and the Genetec environment with no additional software licensing costs to the City. Any required networking services, carrier/ISP costs, or on-site installation work would be scoped transparently and submitted for separate approval prior to execution.

- Participation is voluntary and documented through written agreements (e.g., MOU) defining access, retention, and authorized use.

Conditional Bonus Deliverable (Included at No Additional Cost)

If the City approves the full base proposal as submitted (excluding options), Zimy will include the supply, programming, and installation of one PNM-C34404RQPZ - 4K x 4 AI IR PTRZ + 2MP 40x PTZ Multi-directional Dome, including the associated brackets. This bonus package carries an approximate \$8,000 MSRP, plus typical labor/programming value of \$750, representing nearly \$9,000 in added value to the City.

Investment Summary

The following summarizes the five-year total cost of ownership (TCO) for Option 1, including Year 1 implementation and annual Vaidio licensing through Year 5. A discounted five-year service package is included to support ongoing operations, platform upgrades, and server management.

Category	Year 1	Years 2-5	5-Year Total
Item 1A - AI servers (inference compute)	\$69,268.10	\$0.00	\$69,268.10
Item 1B - Vaidio AI analytics (licenses, integration, labor)	\$28,910.00	\$83,640.00 (licenses)	\$112,550.00
Item 2 - Genetec migration (materials + labor)	\$44,300.00	\$0.00	\$44,300.00
Item 3 - 5G cellular modernization (materials + labor)	\$37,674.00	\$0.00	\$37,674.00
Five-year discounted service package (250 hours @ \$125/hour)	\$31,250.00	\$0.00	\$31,250.00
Dell pricing adjustment (already reflected)	\$0.00	\$0.00	\$0.00

Total Investment (5-year TCO): \$295,042.10

NOTE: Vaidio software will continue to work after year 5, even without extending the licenses; they will simply not receive new updates. Optional add-ons and future-capacity enhancements are available; see the Options and Optional Enhancements section.

Warranty, Training, and Support

Warranty and support are structured to ensure a smooth transition, reliable ongoing operations, and clear ownership of system documentation.

- One-year warranty on all parts and labor (excluding damage due to power surge, vandalism, or natural disasters).
- Three-year manufacturer warranty on Dell servers.
- Year 1: Unlimited training and support at no additional cost.
- Five-year service package: 250 hours of discounted Zimy services for Genetec upgrades, server upgrades, server management, and related RTCC support activities.

Commercial Terms and Conditions

- Pricing is valid for 30 days from the proposal date, excluding Dell server pricing which is subject to manufacturer validity windows noted above.
- Permit fees, if required, are not included.
- Damages due to power surge, vandalism, or natural disasters are not covered under this agreement.
- Pricing assumes necessary credentials and administrative access are available for existing servers and cameras as required to perform migration and configuration activities.
- Work will be scheduled to minimize operational disruption and will be coordinated with RTCC/BSO stakeholders.

Options and Optional Enhancements

The following options may be added to the base scope. Unless otherwise stated, options are additive to the proposal pricing and schedule, subject to final validation during procurement and implementation planning. Certain options are mutually exclusive (e.g., the 5G radio upgrade options).

Option	Description	Qty / Unit	Additive Cost	Notes / Assumptions
A	Add two additional AI servers (matched to the proposed AI server specification) to expand future analytics capacity and mitigate emerging market scarcity and price volatility.	2 servers	\$70,000	Includes procurement, staging, configuration, installation and integration; pricing subject to availability and lead time.
B	Increase Vaidio AI channel license capacity to 125 channels to accommodate future camera additions and expanded analytic workloads.	Add +75 channels (to 125 total)	\$31,365 (Year 1)	Respective increase in Years 2-5.
C	Add UPS battery backup and surge protection at the RTCC head-end to reduce risk of outage and equipment damage.	1 system	\$3,950	Applies to head-end infrastructure; includes equipment and installation.
D	Future-proof 5G network by upgrading all RTCC field 5G radios to MAX-BR2-PRO-5GK-T-PRM MAX BR2 Pro (MSRP: \$2899), supporting SIM-bonding across multiple carriers, enabling higher resilience and typically 1.5x-1.8x increased effective bandwidth where adequate signal exists. This also upgrades antenna to ANT-MAX-DUO Antenna Max Duo (MSRP: \$799)	25 radios	\$58,650 (upgrade adder)	Upgrade adder reflects delta vs base radio + antenna; assumes 25 deployed radios; optional spare available.
E	Deploy a mixed 5G radio package: 15 premium SIM-bonding radios for priority/high-traffic locations, and 10 standard radios as originally proposed for remaining sites.	15 premium + 10 standard	\$35,190 (upgrade adder)	Upgrade adder reflects delta vs base for 15 sites; premium sites selected by performance and stream density.
F	Integrate 16 existing LPR cameras into Genetec AutoVu for unified alerting, search, and evidence workflows.	16 cameras	\$18,280	Integration of Motorola LPR Cameras into AutoVu
G	Enhanced Surge Protection of (25) Remote Sites	25 POE Surge Protectors	\$2,500	Installed between pole-mounted antenna and network switch to protect server.

Acceptance and Next Steps

Upon City approval and receipt of a purchase order (or executed agreement), Zimy will finalize an implementation schedule, confirm site access requirements, and initiate procurement of long-lead items. Zimy will also provide a detailed project plan and coordination cadence aligned to RTCC operational needs.

Respectfully submitted,

Eric Zimmerman

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Zimy Electronics, Inc.

President