

NEVADA DEPARTMENT OF CORRECTIONS

REIMAGINED



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Common Challenges

- Significant staff shortages
- Limited, outdated, disconnected technology
- Staff & offender safety issues
- Overtime costs
- Workload distress reduction – burnout
- Degradation of situational awareness





Overwatch Vision

Overwatch is a corrections command and control platform utilizing technology as a force multiplier to mitigate staff shortages, inadequate technology, antiquated communications systems, and inadequate staff professional development.





Overwatch Vision, continued

Overwatch utilizes an integrated corrections-centric software suite designed to connect **real time** data streams allowing for immediate collaboration between incident commanders and agency command staff during emergent situations. It provides real time offender accountability, tracking, gang management, and re-entry management during day-to-day operations.





Overwatch Operations Center

- Centralized Command Centers – north and south
- Enabled by existing & new technology
- Situational awareness
- Overtime reduction
- Force Multiplier
 - Staff Safety
 - Public Safety
 - Offender Safety



Overwatch Command Software



- Unify existing and new sources of data on single pane of glass
- All data viewable on a geospatial mapping platform
- Monitor video streams, alarms, AI-generated alerts, streamlined verbal/data communications (statewide)
- Immediate situational awareness with live video streams and staff location
- Increase the span of control
- More efficient staff and munitions
- Post incident tracking analysis



Unified Technologies to Manage Today's Challenges



DETECT

Video security and sensors
watch list creation and alerts

Know what is happening with
better insights to protect staff,
inmates & assets.



ANALYZE

Artificial intelligence
Applied Analytics

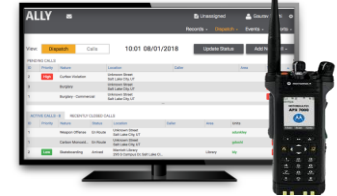
Quickly analyze events & make
informed decisions to take action.



COMMUNICATE

Radio Communications
Data Sharing, Dispatch Software

Connect instantly across devices
& networks to keep security
connected and informed.



RESPOND

Automated Workflows
Dynamic Interoperability

Simultaneously mobilize and
coordinate an immediate response
internally and with public safety.

Know what is happening, when and where it is happening



Monitor

- Monitor and receive alerts to instantly have eyes on the scene
- View live video feeds
- Group cameras to quickly hone in on resources for a response

Map

- See real-time mapped device and unit locations
- Access cameras from a map
- Monitor the situation on the ground in real-time
- Add map layers to improve response including site maps, infrastructure, and floor plans

Manage

- Leverage responder and inmate locations and live video feeds to improve routing, situational awareness, incident response, and personal safety
- Review historical responses and video feeds to improve future workflows
- Apply rules to automate and streamline response

Power Behind Integrated Technology



AI Enabled Analytics



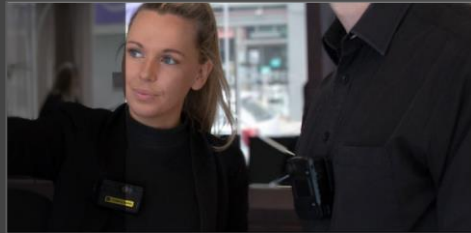
Vehicle & Facial Recognition

Fixed Video Surveillance



Improve Situational Awareness and
Perimeter Protection

Body Worn Cameras



Improving The Safety and
Accountability of Staff

Radio Communication



Improve Real-time Response

Power Behind Integrated Technology



Incident Management



Automated Incident Creation, Evidence Capture

UAV



Quick Reaction Response, Force Multipliers, Real-Time Intelligence, Disturbance Disruption, Damage/Maintenance Evaluation

RFID



Automated Offender Accountability, Location Tracking, Breadcrumb Trail Investigations

Overwatch Operational Impact



Pre-Incident



Mid-Incident



Post-Incident

Day to Day Operations

- Abnormal speed/sound
- Perimeter monitoring
- Common area monitoring
- Groupings
- Separatees
- Egress/Ingress
- Movement mapping
- NDF tracking/vehicles
- Offender accountability
 - Counts
 - Appointments/Visits
 - External movement
 - Unauthorized areas

Emergency Response

- Real time intelligence
- Fast incident resolution
- Instant crime scene review
- Witness identification
- Informed resource deployment
- Real time phone monitoring
- Active participation
- Mobilization
- National Incident Management System (NIMS)
- Training

Investigations

- Gang management
- Continuing criminal enterprise
- Extortion
- Crime scene mapping
- Human trafficking
- Contraband introduction
- License plate recognition
- Tablet tracking



Disturbance



Agency Process:

How our agency handles today:

- Alert supervisor and additional staff
- Staff respond and secure scene
- Video scene, staff and offenders
- Nurses arrive to scene for medical evaluation
- Release offenders back to custody



Disturbance in Common Area



Disturbance in
Common Area



Command Center
Notification



Communications
from Command
Center



Video Analytics
Applied



Situation Controlled
Quickly & Safely



Evidence &
Prosecution



Video AI -
Unusual Motion



Sound Sensors -
Unusual Sound



Alerts to Command
Center



Alerts Mapped



Video Resources
in Vicinity Live
Streamed



Command Center
Radio Comms with
On-site Officers

Notify Nursing
Staff



Video AI Identifies:
- Offenders Involved
- Roles
- Inmate Location
- Weapon Location



Video Clips sent
to Officers



On-site Officers
Quickly Intervene
with BWC



RFID & Video
Provides Pre-mid-
post Intelligence

IR and Report
Writing



Video AI Identifies:
- Fixed Cameras
- BWC
- Sensor Alerts
- RFID
- Offender Phones &
Tablets

Hard Evidence for
Prosecution &
Proactive Actions

Unauthorized Vehicle or Individual


Agency Process:



- How our agency handles today:
- Shift command is notified from staff tower and/or perimeter
 - Supervisor responds with armed staff
 - Supervisor notifies local law enforcement or state police
 - Incident is entered into OMS



Type	Device	Source	Start Time	Duration	Event Name	Face Watch List Match
Face Watch List Match	Culinary Sally Port		Mon, Jan 24, 2022 7:11:42 AM	0:00:09	powers	
Face Watch List Match	Gatehouse		Mon, Jan 24, 2022 6:57:22 AM	0:00:10	gomez	
Face Watch List Match	Gatehouse		Mon, Jan 24, 2022 5:21:11 AM	0:00:09	hailling	
Face Watch List Match	Gatehouse		Sun, Jan 23, 2022 3:51:30 PM	0:00:32	smith	
Face Watch List Match	Culinary Sally Port		Sun, Jan 23, 2022 2:54:32 PM	0:00:15	smith	
Face Watch List Match	Gatehouse Entry		Sun, Jan 23, 2022 1:51:05 PM	0:00:26	powers	
Face Watch List Match	Gatehouse		Sun, Jan 23, 2022 1:47:22 PM	0:00:34	smith	
Face Watch List Match	Gatehouse		Sun, Jan 23, 2022 1:46:51 PM	0:00:03	Sgt	
Face Watch List Match	Gatehouse		Sun, Jan 23, 2022 1:43:02 PM	0:00:54	hailling	
Face Watch List Match	Culinary Sally Port		Sun, Jan 23, 2022 1:18:00 PM	0:00:04	powers	



Unauthorized Vehicle & Individual



DETECT



INDIVIDUAL RECOGNIZED

The license plate of a known disruptive individual is recognized entering the parking lot. An alert is automatically sent to security staff directly on their device of choice and in the command center.

ANALYZE



KNOWN INDIVIDUAL LOCATED

Cameras are populated and security teams monitor the movement of the banned individual. Nearest security resources are located.

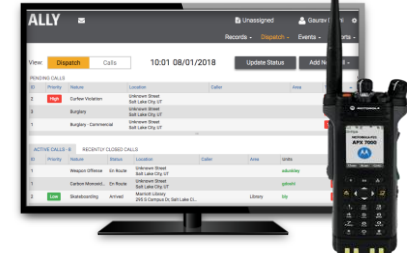
COMMUNICATE



SECURITY TEAMS DISPATCHED

Live video and intelligence is shared with security staff monitoring building entrances to intercept the individual and prevent them from entering the facility.

RESPOND



SITUATION CONTAINED & REPORTED

The banned individual is prevented from entering the facility and real-time intelligence is shared with public safety prior to their arrival. An incident report is securely logged with relevant information.



Missing Offender/Escape



Agency Process:

How our agency handles today:

- Lock down
- Emergency count
- Internal search
- Proper building clearing
- Manual roof search
- Deploy canine units
- Check for fences to be breached
- Set up additional mobile units
- Deploy staff to fixed posts





Missing Offender/Escape

- Initiate lockdown
- Check RFID database
- Facial recognition
- Thermal imaging cameras in yard and outside walls
- Deploy drones
- Notify QRF
- Ongoing efforts from command center for situational awareness and comms to the institution

Outcome: Expeditious accountability with emphasis on staff and offender safety throughout the process





Technology Impacts to Costs and Staffing

Reimagining technology will address challenges of costs and staffing

- Staff confidence and job satisfaction
- Retention
- Recruitment
- Budget savings in overtime
- Modernization of new best practices
- Training evolution
- Additional skills and abilities
 - Drone operation
 - AI enhanced communication
- Modernized academy curriculum
- Agency modernization

Force Multiplier



Technology for Daily Operations

Accountability for people and programs

- Offenders
 - Counts/exact location
 - Gang tracking and positions
 - Egress/Ingress
 - Location while on work release
- Visitors
 - Safety
 - Activity tracking
- Programming
 - Entry/re-entry
 - Educational
 - Mental Health
 - Prison Industries
 - Apprenticeships
 - Volunteers

STAFF SAFETY

PUBLIC SAFETY

INMATE SAFETY





Conclusion and Questions