TZ CM V3 New Features List

Overall TIMEZERO Improvements

- Native 64-Bits support (32-Bits Operating System no longer supported)
- Improved Licensing Protection: more robust and more "flexible" (allows Windows RDP)
- Updated radar hardware compatibility (same as TZ Professional V4):
    - o supports and automatically detects all DRS-NXT series (note that "Target Analyzer" is not applicable to Coastal Monitoring application)
    - o *REGRESSION: Koden radar no longer supported (not compatible with 64bits)*
- Updated Weather features (same as TZ Professional V4):
    - o New weather server (higher accuracy for GFS)
    - o New weather display (particle animation)
    - o Meteogram (useful for fixed location)
    - o NEW: Automatic Weather Download Scheduler (user can set a schedule at which the weather would be automatically downloaded every day)
- New Simulation Mode:
    - o Realistic Radar Simulation based on elevation (requires ".dbt" file for the area)
    - o AIS Target Simulation
- Target improvements:
    - o Improved AIS filter on chart (possible to apply the list filter on the chart), allowing to only display "favorite" AIS or dangerous AIS on the chart.
    - o Adding vessel picture (Internet connection required) and flag to AIS tooltip
    - o Recall Target Track
    - o Increase to up to 5000 AIS targets
    - o Increase Target Trail to up to 12H
    - o Follow Target in the Center of the screen

Camera Improvements

- New Camera configuration wizard:
    - o Easier configuration (auto-detect the camera and its capabilities)
    - o Support AXIS Bi-Spectral cameras (Daylight + IR)
    - o Support AXIS Wiper
    - o ONVIF protocol (individual ONVIF Camera would still need to be tested in our office for official support)
- Augmented reality improvements:
    - o HUD indication
    - o Offset to compensate wrong camera leveling (roll)
    - o Stabilization for dynamic mode (requires Furuno Satellite compass)
- Dedicated Video Input feature for integration with third party device (via VGA/HDMI encoder)
- *REGRESSIONS: TZ CM Remote can no longer be directly connected to camera (cameras have to be connected to the stations and transferred to TZ CM Remote via TZ Host). Pelco-D camera must use the standard coordinates (contact us for more information).*

Rule and Alert Improvements

- Improvements to Zone Monitoring Rules:
    - Addition of a new Filter Tabs when creating a rule:
        - possibility to prevent the same rule to trigger multiple time during the last XX seconds
        - possibility to filter AIS targets by Nav. Status and/or Vessel Type
    - Addition to the CPA/TCPA condition in zone monitoring rule (allowing to set multiple independent rules with various CPA/TCPA thresholds and actions)
    - New actions allowing to send SMS and E-Mail directly from TZ (no need for external tool or script) with "smart tags"
    - New action allowing to display a message to the user (useful to give operator specific instructions) including optional HTML tag
    - New options to control camera tracking priority if the camera is already busy tracking another target
- Network I/O integration with SeaLevel 110E/120E: 4 Outputs (Relay) and 4 Inputs (Digital):
    - Rules can trigger external relay (ON, OFF, Toggle, Temporary ON, Temporary OFF)
    - NavData can be configured to control external relay and monitor input status
    - Input can be configured to trigger action (using the Shortcuts Framework)
    - Input can be configured to trigger an Alarm or Notification

Improvements to the Record & Replay module

- TZ CM can record / replay up to 12 cameras (slower FPS)
- Data Replay improvement:
    - User can create customized WorkSpaces with timeline (configure Radar, Camera, and combined displays with a timeline to replay all data)
- Target Replay improvements:
    - Performance has been improved
    - "Ghost Trail" is displayed automatically when clicking on a replay target
    - Track recall available on replay target
- Audio Replay improvements:
    - Can select Audio Playback source by right clicking on the timeline directly
    - See visually on the timeline where audio has been recorded (color coded indication for each channel)
    - See in the new Event Log list VHF conversation (easy to find)
- New Event Log list (to retrieve specific events easily)

Radio Direction Finder compatibility

- Radio Direction Finder compatibility:
    - Supports Rhotheta RT-800, RT-500M, and RT-300) hardware ($PRHO,xx,DFSTD and $PRHO,xx,DFVTS sentences)
    - Ability to display real-time bearing lines with dedicated NavData (showing bearing, frequency, channel, and Signal Level)
    - Handles "ELT-Plb" and "Sarsat" Alarms

o Transmit all Bearing Lines via the TZ Host to combine multiple sites and automatically triangulate position in case of an "ELT-Plb" or "Sarsat" alarm is triggered (MOB mark automatically created and updated)

Fleet Integration

- Fleet Target in TZ CM allowing to add TZ Professional into a Coastal Monitoring system:
    o Fleet Tracking via TZ Cloud (Fleet Tracking Service):
        ▪ Requires TZ Fleet subscription with an Internet connection (managed on TZ Cloud on Microsoft Azure servers)
        ▪ Restricted to Position, Depth and Wind (no radar or camera)
        ▪ User Objects and Text messages can be sent via TZ Cloud
        ▪ Supports intermittent Internet connection ("Store & Forward")
    o Fleet Tracking via TZ Host:
        ▪ Requires the new "TZ Host Output" module loaded on TZ Professional V5
        ▪ Self-Managed with TZ Host (Internet or private WAN can be used)
        ▪ Support Camera and Radar control (in addition to Position, Depth and Wind)
        ▪ Cannot send User Objects or Text Message via TZ Host (user objects could be synchronized through an Internet connection if the same My TimeZero account is used on TZ Professional and on TZ Coastal Monitoring)
        ▪ Designed for "permanent" connection (no "Store & Forward" in case connection to TZ Host is cut)
    o Fleet target can be used as Rule trigger, but relative Guard Zone can also be attached to Fleet target to trigger their own rules.
    o *REGRESSIONS: Replaying Fleet Target on TZ Professional will require the VDR module. Target Anchor Watch no longer available on TZ Professional (renamed "Target Watch" and only available on TZ Coastal Monitoring with the Rule management).*

CLICK HERE TO PLAY THE FULL TUTORIAL VIDEO