C5ISR

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Good System With Security is Everything

RISC³ C5ISR RISC³ Ghost Protocol V3.4

Radar Integration and Surveillance Combined Command Center

Application

• The latest generation of locally manufactures (C5ISR) automated Command and Control Centers.

• RISC3 aims to digitalize command and control tasks by exchanging data between air defense units and air forces of different origins through the center.

• The Center equipped with dedicated systems capable of connecting various radar systems, aircraft, sensors and electronic warfare, and integrating all the information and data received into a unified system called (RISC3) to analyze and evaluate risks and air threats, and determine the type of air defense system needs to deal with these threats.

SERVICES

- ODC — Operation Display Console
- STP — Surveillance Tracking Processing
- FDP — Flight Data Processing
- DDL — Digital Data Link
- RPP — Recording & Playback Processing
- SDP — Surveillance Data Processing
- SNP — Safety Net Processing
- TEP — Threat Evaluation Processing
- TMP — Threat Management Processing
- GCI — Ground Control Interceptor

RISC³ C5ISR RISC³ Ghost Protocol V3.4

Radar Integration and Surveillance Combined Command Center

Main Features

- Number of Controller's Working Positions (> 48 optional)
- System Interfaces All ASTERIX Formats and (Others Formats optional)
- Model Of the Earth WGS-84
- Startup Time <5 min
- Flight Data Processing System
  - Number of flight plans : (>1,000 optional)
- Surveillance Data Processing System
  - Sensors types : PSR, SSR, MODE-S, ADS-B and (Others are optional)
  - Number of sensors: (>24 optional)
  - Number of system tracks: (>2,000 optional)
  - Number of processing plots: (> 10,000 optional)
  - Radars rotation speed: (>30 rpm optional)
- Digital Data Link System
  - Fully dynamic data exchange with other different types of command centers
- Reliability & Support
  - Use of COTS Hardware
  - Platform: Multi-Cross platforms
  - Long term support, upgrade and services
  - Technology transfer (optional)
- Security:
  - ZETA-2H is based on Next Generation FireWall
- Installation Fixed - Mobile Compact

CTC² C5ISR

Counter-Terrorism Command Center

Application

• CTC2 is used as tactical operations centers for land surveillance, Intelligence, counter-terrorism, target tracking. The Center was developed to be used in mobile platforms for connecting to other mobile or fixed centers, allowing the coverage of shadow areas or remote sensors, sharing of tactical situation, controlling and supporting of the means of action more closely.

• The Center equipped with operation management systems to support the planning , execution of operations and exercises of a land, naval or air force throughout the chain of command from strategic levels to tactical levels.

• The Center used for missions of securing convoys and special buildings in cities. Also center can be establishing defense zones and umbrellas out cities.

SERVICES

ODC
Operation Display Console

STP
Surveillance Tracking Processing

SDP
Surveillance Data Processing

DDL
Digital Data Link

RPP
Recording & Playback Processing

FRP
Face Recognation Processing

MPP
Mission Planning Processing

TEP
Threat Evaluation Processing

TMP
Threat Management Processing

UAV
UAV Processing

CTC² C5ISR

Counter-Terrorism Command Center

Main Features

- Number of Controller's Working Positions (> 48 optional)
- Model Of the Earth WGS-84
- Startup Time <5 min
- Surveillance Data Processing System

  Sensors types : Radars, Cameras, (Land – Sea - Air) Sensors (Others are optional)

  Number of directly connected sensors: (>48 optional)

  Number of Faces Recognized : (>8,000 optional)

  Number of directly connected cameras: (>24 optional)

  Recorder Capacity (>6 Months optional)

  Number of UAVs Controlled (>2 optional)
- Digital Data Link System

  Fully dynamic data exchange with other different types of command centers

  Multi-Cross platforms Applications

  Commercial working stations (No Servers)

  No hardware digital signature

  Multi redundant Cloud Computing System

  Open system LAN-based architecture

- Security:

  ZETA-2H is based on Next Generation FireWall

  Full Physical Isolation between different networks ACME Bridge
- Installation Fixed – Combat Vehicle – Van

NAVC³ C5ISR

Navy Combined Command Center

Application

•NAVC3 is used by Naval authorities to supervise and manage coastal protection and maritime missions in peace time as well as war or crisis. It includes the variant models (local – coastal – on board).

•The Center produces maritime situation picture by integrating a various sensors and platforms. These sensors and platforms include coastal, seaborne, airborne, satellite, underwater and intelligence assets.

•The Center equipped with operation management systems to allow operators and decision makers to evaluate the tactical situation and make decisions based on timely and accurate information.

SERVICES

ODC
Operation Display Console

STP
Surveillance Tracking Processing

SDP
Surveillance Data Processing

DDL
Digital Data Link

RPP
Recording & Playback Processing

CMS
Combat Management System

MPP
Mission Planning Processing

TEP
Threat Evaluation Processing

TMP
Threat Management Processing

UAV
UAV Processing

NAVC³ C5ISR

Navy Combined Command Center

Main Features

- Number of Controller's Working Positions (> 48 optional)
- Model Of the Earth WGS-84
- Startup Time <5 min
- Surveillance Data Processing System

  Sensors types : Radars, Observation, Sonars, AIS, IFF (Others are optional)

  Number of directly connected sensors: (>48 optional)

  Platforms Type : Ships, USV, UAV, Coastal Surveillance radars(Others are optional)

  Communication: HF – VHF – UHF – SAT – data links – MW (Others are optional)

  No of Ships Tracking: (>10,000 optional)

  Recorder Capacity (>6 Months optional)

  Number of UAVs Controlled (>2 optional)

- Digital Data Link System

  Fully dynamic data exchange with other different types of command centers

  Multi-Cross platforms Applications

  Commercial working stations (No Servers)

  No hardware digital signature

  Multi redundant Cloud Computing System

  Open system LAN-based architecture

- Security:

  ZETA-2H is based on Next Generation FireWall

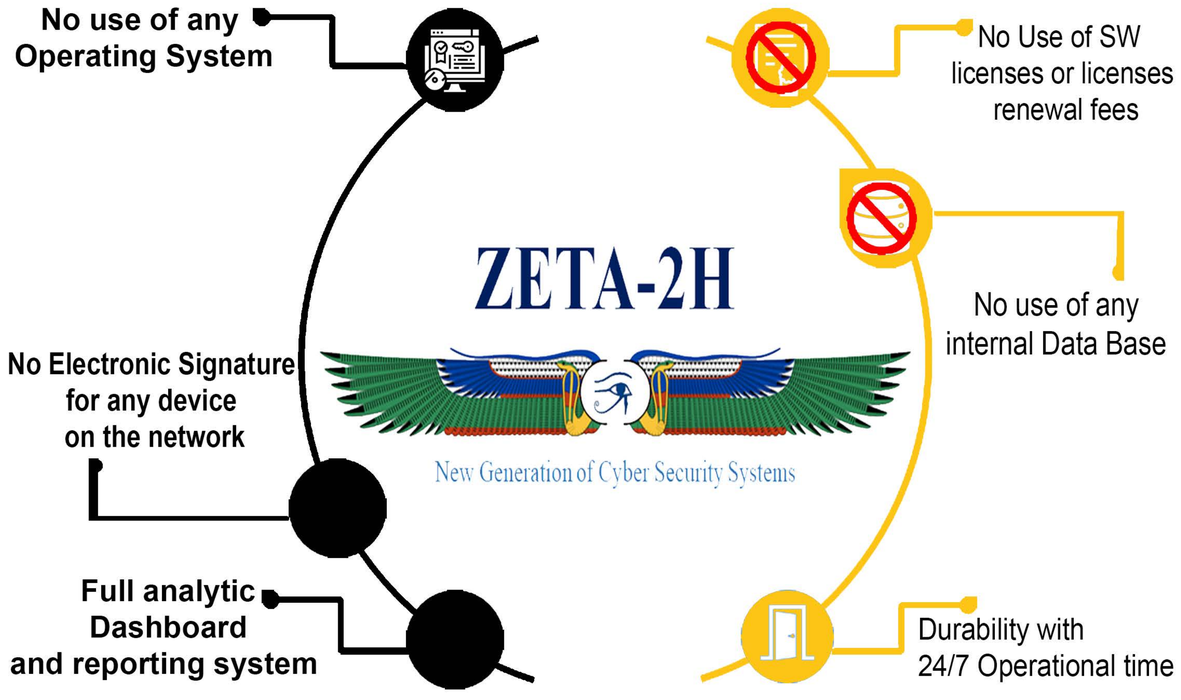
  Full Physical Isolation between different networks ACME Bridge

- Installation Fixed – On board (CMS)

What is ZETA-2H ?

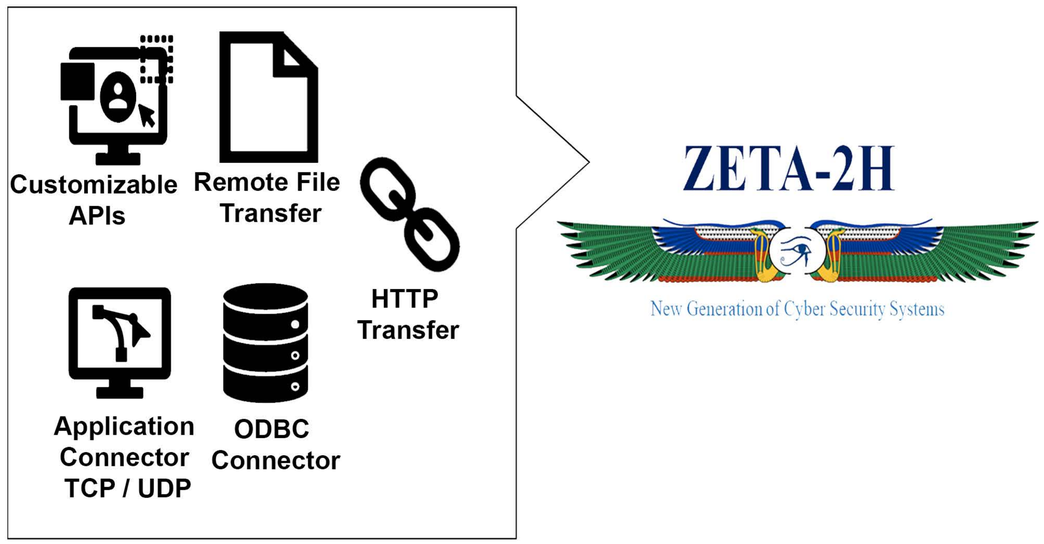
- Standard Cyber Security System:
ZETA-2H is military standard based Cyber Security System (DOD 2167A).
- Applicable Hardware:
ZETA-2H uses native HW solution Based on FPGA .
- Not Exposed to Standard Network Layers Vulnerabilities:
All ZETA-2H network is based on network Zero Layer transmission and DPI technology.
ZETA-2H have a complete physical network isolation with offensive attacks simulator.

Why ZETA-2H ?



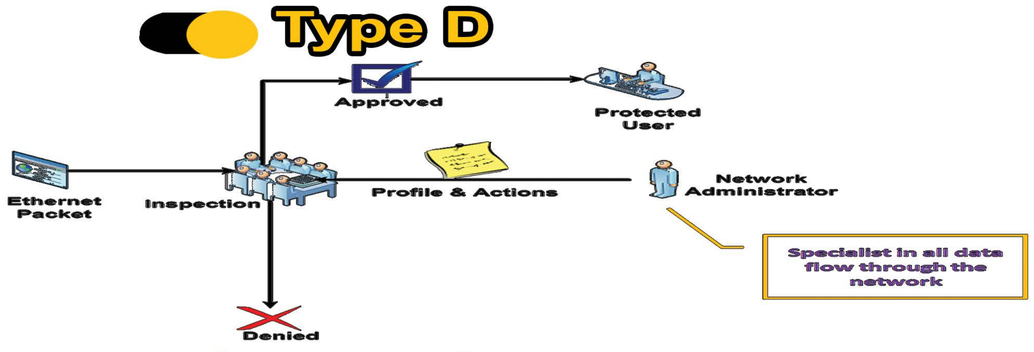
ZETA-2H C5ISR ZETA-2H
New Generation of Cyber Security Systems

ZETA-2H Services



ZETA-2H Work flow Diagram

Type D



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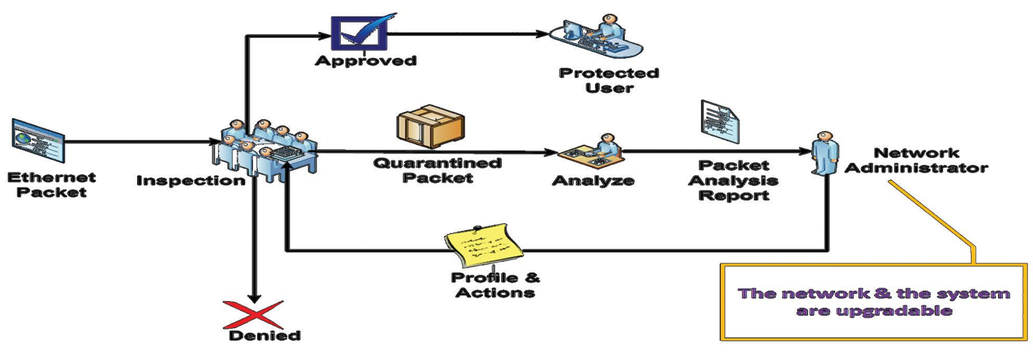


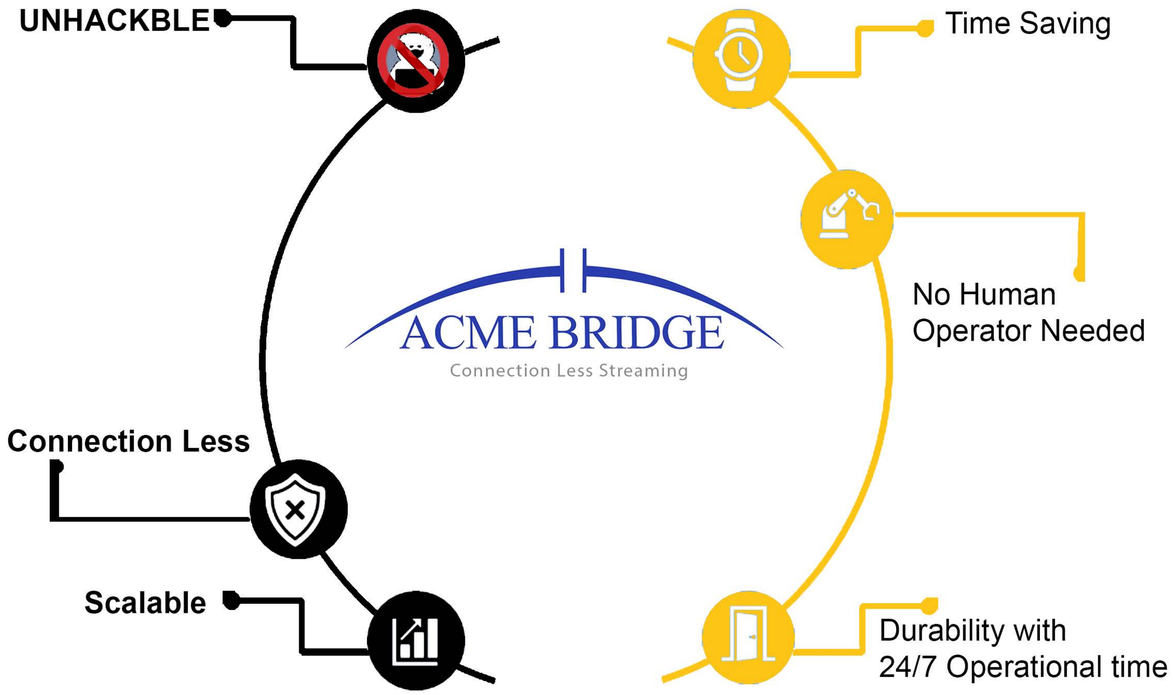
What is ACME Bridge ?

- Visual Based Connection with Artificial Intelligence:
Empowered by artificial intelligence, ACME Bridge uses visual communication between two connection points to embrace the air gap secure connection approach.

- Connection Less Streaming:
All ACME Bridge communication is done visually without physical nor wireless network connection.

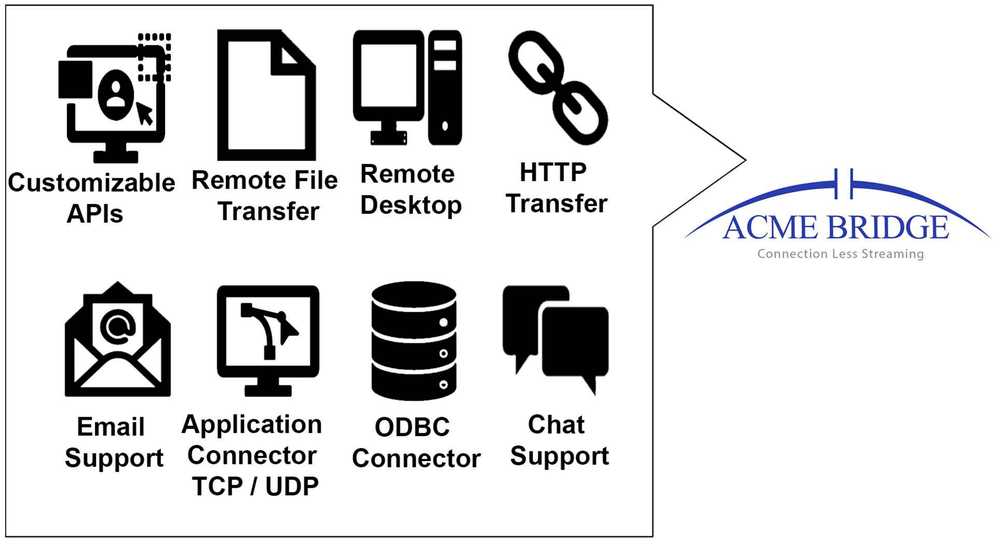
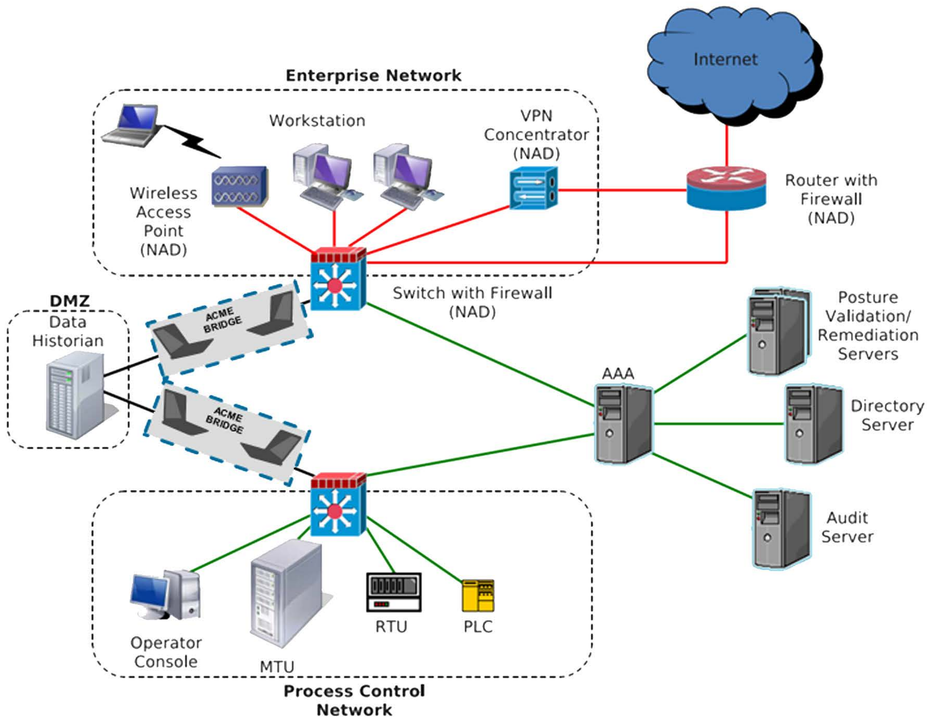
- Not Exposed to Standard Network Layers Vulnerabilities:
Not exposed to OSI standard layers and only specific data streams are allowed to pass after being sanitized and scanned securely to assure its authenticity.

Why ACME Bridge ?



ACME Bridge C5ISR ACME BRIDGE Connection Less Streaming

ACME Bridge Services



ACME Bridge Work flow Diagram