
ZEBRA

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The global landscape has undergone enormous changes in the last 15 years. Known security threats have given way to new ones conceived to avoid detection. The technologies available to law enforcement and intelligence agencies have failed to keep pace with the ever-increasing sophistication of the modern global communications infrastructure.

Intelligence | Power | Sophistication | Speed


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ZEBRA *Intelligence. Power. Sophistication. Speed.*

VASTech's solution for piecing together the intelligence puzzle

THE PROBLEM

Gaps in the intelligence picture where criminals slip through.

THE SOLUTION

Third Generation technology from VASTech for recording and filtering all communications from voice and data networks.

VASTech's technology has been designed to store and index as many as 3 million simultaneous calls in a central repository. Crucial data can be extracted, processed and analysed with sophisticated tools.

ZEBRA. Shaping the 21st century face of intelligence gathering.

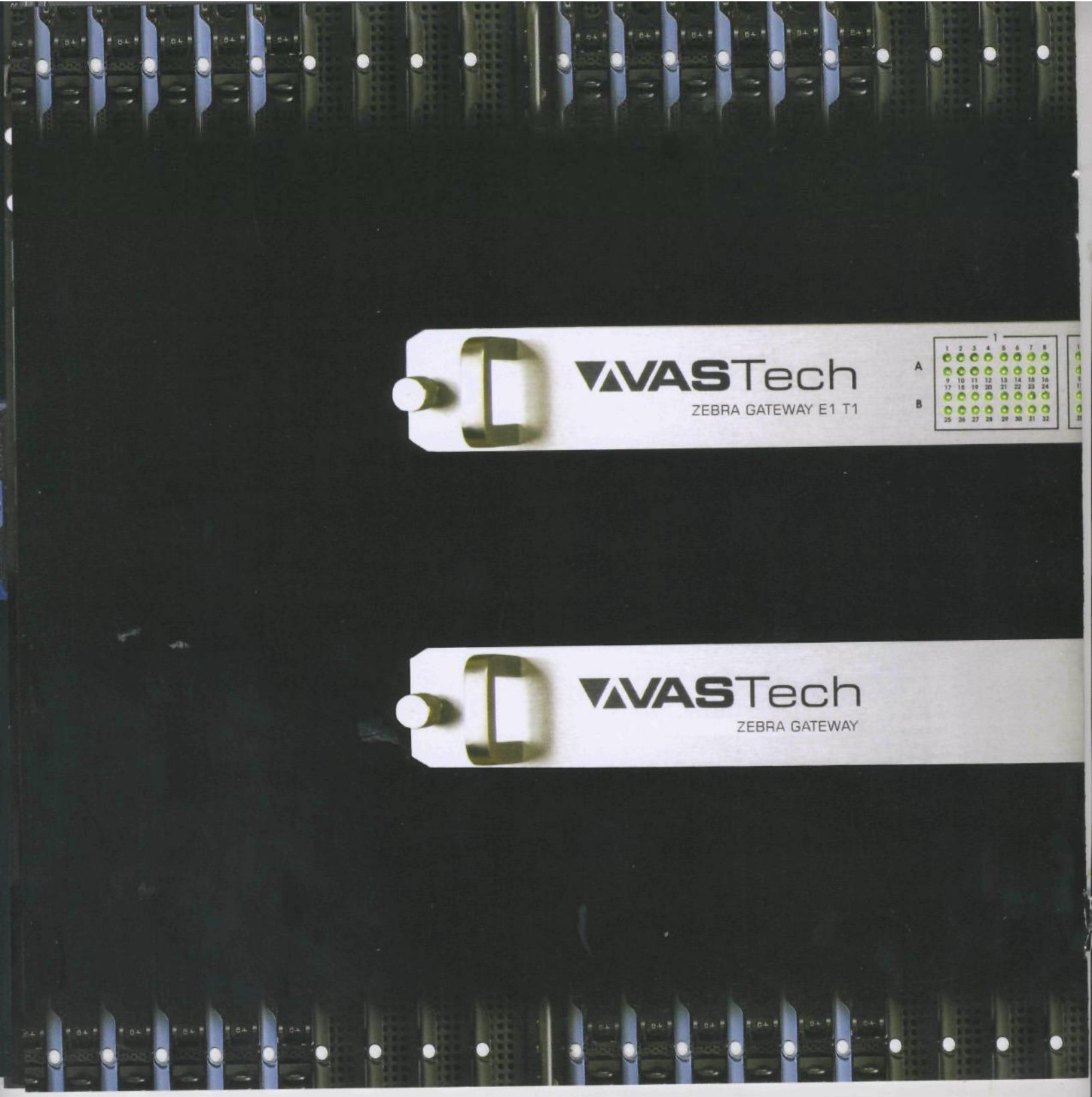
ZEBRA epitomises flexibility. It has the power to record, store and analyse communications with a footprint that is a fraction of the size of current systems. Using software and industry standard hardware, ZEBRA takes automated intelligence gathering to a new level.

ZEBRA offers numerous benefits through its range of features

From Triggers to Filters

Agencies have traditionally configured triggers to intercept targets. The blanket interception concept of the Zebra system enables filters to provide all the benefits of triggers and afford law enforcement agencies the possibility to reach back in time to access the communications of targets before they were identified as targets.

After a major incident agencies can re-construct the intelligence picture and also create alternative scenarios for further investigation.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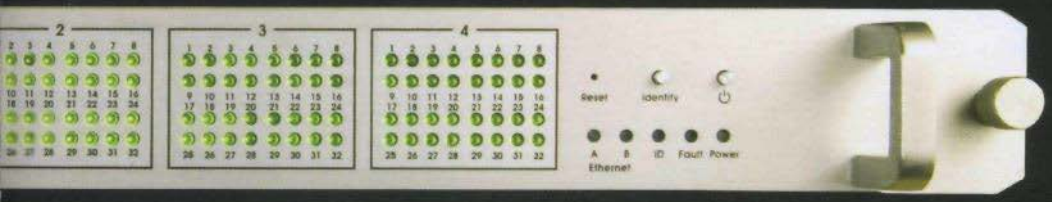

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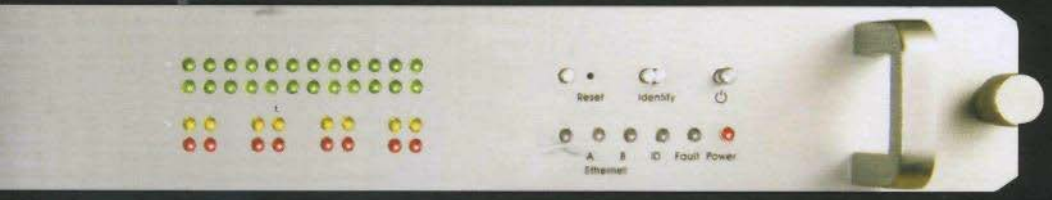


ZEBRA Optical Gateway

Smaller Is Bigger

The design significantly reduces the infrastructure requirements to run and maintain a fully operational intelligence gathering platform. A Zebra configured to record 30,000 concurrent intercepts (1,000 x stereo E1's) and demodulate all fax and modem sessions, takes up less than three equipment racks.

Seamless Scalability

The possibilities for growing the ZEBRA system as requirements change are almost limitless. A typical system capable of handling 30 000 concurrent channels, 450 000 intercepts per hour and 6 terabytes of storage per day can be deployed rapidly without the need for additional infrastructure. The real power vests in Zebra's ability to effortlessly manage as many as 3 million concurrent channels and store up to 200 million entries in a single database, allowing for a greater depth of intelligence gathering than before.

Centralised Storage. Distributed Sensors.

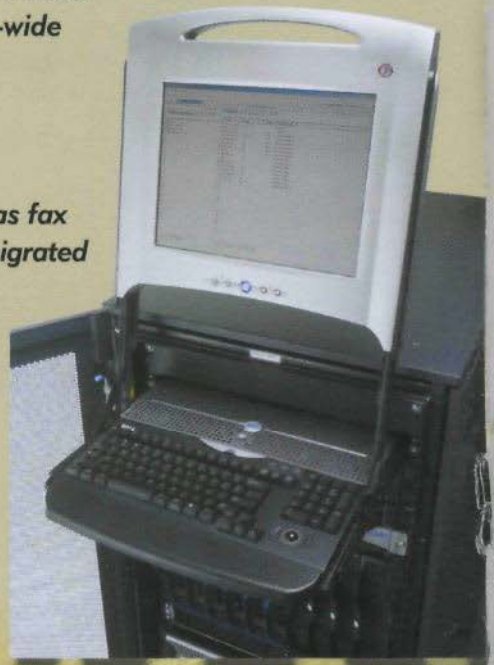
Remote capture units can be deployed anywhere they are needed and linked to a centralised data centre and storage facility to provide instant access to and sharing of system-wide data. Storage capacity can be increased to meet new requirements.

Front End Processing

Zebra allows agencies to automatically migrate selected information to a central repository. Zebra can perform configured content based processing, such as fax demodulation, at the remote site, requiring only the results of such processes to be migrated to the central repository, thus conserving bandwidth.

One API. Many Tools

Zebra provides an API that allows easy integration with third party intelligence management and processing tools, without the need for vendor support.



Automated processing and extraction combined with industry standard, off-the-shelf hardware reduces the need for specialised skills to operate and maintain the system. The system allows for integration of a range of processing and analytical methods including relationship analysis, speaker ID, word spotting, GIS, OCR and more. Zebra also ensures that an audit trail is available to simplify management.

Network Infrastructure Indifference

The use of soft switch technology allows ZEBRA to be deployed in circuit and packet switched networks. SS7, SS5, ISDN and VoIP protocols can be processed simultaneously, optimising hardware infrastructure.

Automated Signal Classification

Signal inputs can be connected to the Zebra gateway in any configuration. Carriers are automatically classified and labelled as SS7 signalling, SS7 bearer or SS5 channels. Our SS7 CIC mapping application generates suggested pairings for acceptance or modification by the system administrator.

Zebra can map a large number of channels – something that is impossible to perform manually without a known CIC Table. These facilities are especially valuable when connecting unidentified carriers. In a distributed implementation, CIC mapping may be performed where SS7 signalling messages and corresponding content are encountered at different sites.

Embedded Demodulation

Demodulation is an embedded software application. Agencies can now dynamically redistribute processing power as and where required - for example over a WAN for distributed implementations.

Software centric. Off-the-shelf hardware

Switching, encoding, and protocol analysis are all performed in software on industry standard computing platforms. ZEBRA offers all the associated advantages of using COTS (commercially off the shelf) hardware such as

- *Choice of hardware supplier*
- *Short lead times*
- *Growth in processing power with Moore's law*
- *No specialised skills required*
- *Simplified training*

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VAS Tech
VAS Tech


VASTech. The Technology Leader.

VASTech was established in 1999 and is focussed on the design, manufacture and distribution of network-based recording solutions for a broad spectrum of government and commercial applications. The company utilises a combination of its own and selected third party products to develop sophisticated solutions for the world market. Our products have been successfully exported to many countries in a number of regions, including the EU, Africa, Middle East and Asia Pacific.

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