

# Government Vertical

## Commercial Taxes

[commercialtax.gujarat.gov.in](http://commercialtax.gujarat.gov.in)

SecuraNET Deployed on : January, 2006 | No. of Locations : 37

The Gujarat government, pioneer in using technology for better governance has taken initiatives that have enhanced the productivity and speed, is better known for projects like GSWAN (Gujarat State Wide Area Network) connecting all computers in the state till the taluka level in india, has added another feather to its cap by computerizing one of the revenue generating arm of the government, the commercial taxes department for Value Added Tax.

VAT, is a multi-stage tax levied at each stage of the value addition chain, with a provision to allow input tax credit (ITC) on tax paid at an earlier stage, which can be appropriated against the VAT liability on subsequent sale. VAT is intended to tax every stage of sale where some value is added to raw materials, but taxpayers will receive credit for tax already paid on procurement stages. Thus, VAT will be without the problem of double taxation as

### VAT Application

Tata Consultancy Services Limited (TCS) is the world-leading information technology consulting, services, and business process outsourcing organization that envisioned and pioneered the adoption of the flexible global business practices that today enable companies to operate more efficiently and produce more value.

For computerizing the whole process of GVAT transactions securely with central management for 78 different locations of sales tax TCS was given the responsibility for implementation & functioning of database using Oracle.

### WAN Connectivity

GSWAN - the largest IP based IT infrastructure network in Asia Pacific connects 25 districts and 225 talukas through 12,000 nodes. GSWAN is capable of voice, video and data transfer and is being replicated by the other Indian states. The capacity network has been further strengthened.

GVAT Oracle Applications has been developed by TCS and Wipro was responsible for delivering racks, Dell servers, Cisco Layer 2 Switch. GSWAN was given the responsibility of establishing VLAN among 37 locations. Bulwark systems was given the responsibility for delivering a robust & secure solution for GVAT data.

All 37 main sales tax offices have racks installed consisting of Cisco Router, Layer 2 switches, patch panel with application & database server. SecuraNET SentinelXS is attached with Layer 2 switch for controlling traffic & protecting Oracle database and application server. Database & Application Server are connected to Layer 2 switch. V-LAN Network is used for connecting 37 different locations of sales tax in Gujarat.

### Hardware Deployment

Wipro Technologies is the provider of integrated business, technology and process solutions on a global delivery platform. Wipro Technologies is a global services provider delivering technology-driven business solutions that meet the strategic objectives of our clients. Wipro chose Bulwark Systems SecuraNET SentinelXS to protect the network.

### Requirement

- » All 37 locations of sales tax offices in Gujarat needed to be connected with central server located at Ahmedabad. It required encrypted connectivity.
- » Only required Ports for specific applications needs to be opened. Except that all traffic should be blocked & forbidden.
- » Remote Desktop Connectivity only from database server to database server between 37 locations.
- » No external unauthorized access to GSWAN network.
- » Encrypted data transfer using tunnel between database to database servers & application to application servers
- » TnsPing (Oracle Net Connectivity) between all the 37 centers required.
- » Encrypted Connectivity between Cisco PIX 5.x located at one Central location in Ahmedabad Sales Tax Office to all different 37 locations.

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### SecuraNET Solutions

- » Installed & Configured SecuraNET SentinelXS 1000 at 37 point of contact locations of Sales Tax Offices in Gujarat.
- » SecuraNET SentinelXS Firewall opened the ports required for specific applications to communicate.
- » SecuraNET SentinelXS allowed the traffic for Remote Desktop Connection.
- » SecuraNET SentinelXS Active Firewall policies allow only authorize traffic to pass providing robust protection to GSWAN Network.
- » SecuraNET SentinelXS IPSec feature provided encrypted data transfer having the support for AH & ESP with 3DES encryption method
- » Tnspring required by Oracle Application to communicate from both ends. SecuraNET SentinelXS has support for oracle traffic. Only few firewall has this feature because Oracle has its own integrated firewall.
- » Using SecuraNET SentinelXS IPSec Feature we were able to connect with Cisco PIX 5.x Firewall.

### Results

- » All the remote 37 locations are securely connected without any flaws & loopholes
- » Oracle Applications & Servers (Database-Application) installed at 37 location are able to communicate and perform their functions.
- » GVAT Transactions being highly secured, all the data transfer takes place through encrypted channel.
- » All GVAT Transaction are handled & administered from one Central location.
- » SecuraNET SentinelXS remote connectivity feature helps technical team to check out firewall functionality at each and every location without delay.

