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# ***Digital Certificates & Digital Signature Services from SafeScript.***

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*Internet Trust Services from SafeScript – A VeriSign Affiliate.*



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## **1. SafeScript – India's First licensed CA**

SafeScript, promoted by Satyam hfloway (NASDAQ : SIFY) focuses exclusively on Internet Trust and Security services and solutions.

Offering digital certificate & Public Key Infrastructure (PKI) based solutions, SafeScript provides organisations with that critical missing piece of the puzzle that would enable them to do true, end to end e-business & e-commerce.

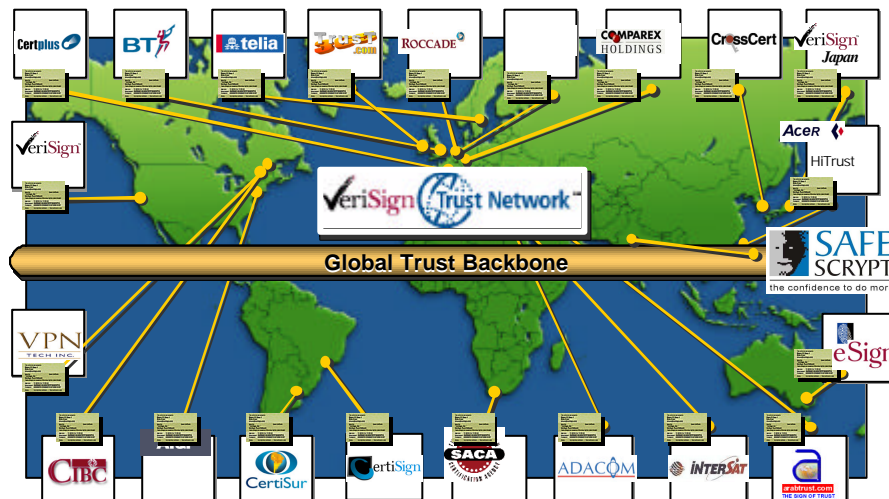
### ***Affiliate of VeriSign Inc, a global leader***

To offer the very best to its customers, SafeScript has partnered with VeriSign Inc. (NASDAQ:VRSN), the world leader in this arena to cater to the Indian subcontinent in India, Sri Lanka, Bangladesh and Nepal.

### ***Part of the highly trusted VeriSign Trust Network***

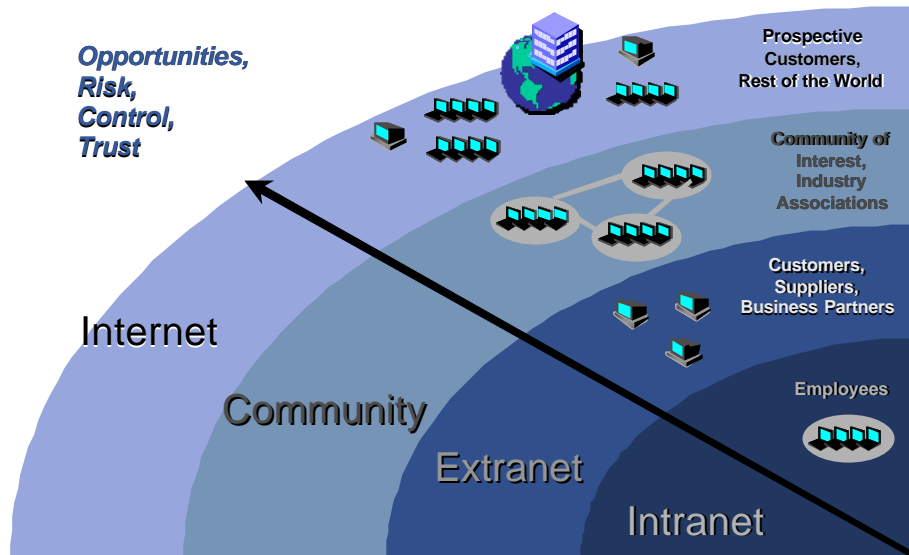
As a VeriSign affiliate, SafeScript has set up a high-end, global standards-based Processing Centre in Chennai, capable of hosting thousands of discrete CAs and issuing millions of Digital certificates. A Digital Certificate is like an "electronic passport". It is an individual's identity on the net that uniquely identifies him or her in the digital world. This is issued by a Certifying Authority.

SafeScript is part of a group of VeriSign Affiliates worldwide that form the globally interoperable and highly trusted VeriSign Trust Network or VTN, the only such network of its kind in the world today.



## 2. Go Forth into the e-age with Trust and Confidence

Today, we all agree that effective use of the electronic media provides a reliable and cost-effective platform to increase customer bases, provide better services and reduce costs.



A variety of businesses are increasingly moving critical business operations to the Electronic Media –

- **Enterprise Resource planning (ERP)** is deployed to integrate business functions with processes, improve efficiency and reduce cost.
- Organisations with **Supply Chain management** are able to extend reach, improve sales force productivity and reduce Vendor management costs
- **B2B applications** provide online communication between organizations and its Vendors/ suppliers/ partners and provide better service to all participants in a cost-effective manner
- **Messaging** platform provides speedy communication with reduction in operational cost and enhanced efficiency.
- Net Banking, e-broking and other **Financial Services** use this platform to increase their customer base, provide improved customer services and reduce costs
- Organisations focusing on **Governance issues** like HR and Admin procedures, sales reporting, top management information exchange and other critical business processes use these solutions to reduce response times, improve employee morale and enhance overall effectiveness

### **3. Challenges in Existing e-business solutions**

Businesses have not been able to utilize the full potential of internet and e-commerce. This is because of challenges in the existing mediums.

#### **1. Meeting Statutory Requirements**

- Paper work still required for meeting authorized signatures (eg. Invoices, etc)
- Meeting Financial Audit Requirements

Organisations are required to maintain physical documents, papers, agreements, etc for meeting the financial audit requirements as well as for meeting the statutory requirements. Its is mainly because today the only medium of a non repudiable communication/document is if its bearing the physical signature of the writer.

#### **2. Operational Challenges**

- Scope for Repudiation of electronic transactions
- Maintaining consistency in Physical & electronic information (eg. Physical invoice & electronic invoice)
- Generation & courier costs associated with Physical document exchange.
- Increase in Process cycle time because of physical movement of documents and associated business costs.

As organisations are migrating to electronic data processing, it has become a big challenge to fulfill these requirements without maintaining hybrid systems of electronic and paper based processes. This is not only time consuming but also operationally inefficient.

#### **3. Information Security**

- Foolproof **Authentication** of users to avoid unauthorised access to information ( is UserID / Password enough ?) Authentication – How do we know whether the person or entity we are dealing with on the net is indeed who he or she claims to be?
- **Confidentiality** of Users Data ( internet is public network !!) – Can we be sure that the information we sent across has indeed gone without someone else taking a look at it?
- **Data Integrity** in storage as well as in transit ( is the data tamper evident ?) How do we know that the data we received has not been altered mid-way?
- **Non-Repudiation**- What if the person we transacted with went back on his word? Do we have proof?

In this way there are a number of challenges in the existing e-business solutions which need to be taken care of in order to exploit their full potential.

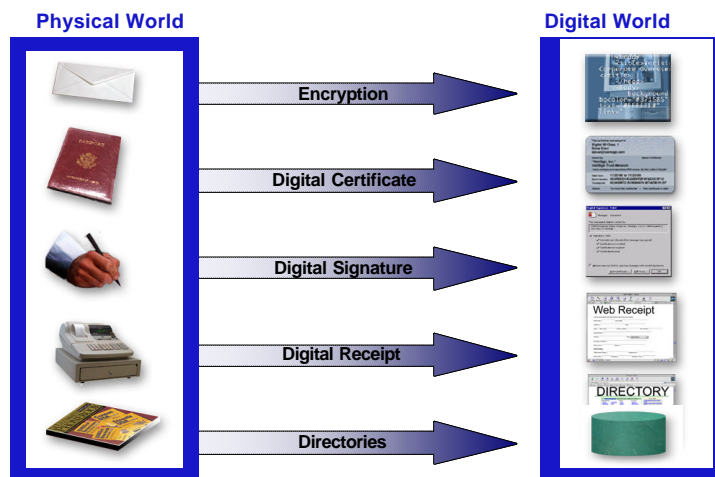
#### **4. SafeScript Solution to Address above concerns**

As organizations move towards adopting solutions offered by SafeScript, they can fundamentally alter the way businesses operate by greatly improving business efficiencies and streamlining operations. SafeScript enables businesses and individuals to obtain and implement digital certificates and PKI (Public Key Infrastructure) based solutions.

Functioning as electronic credentials that identify transacting individuals online, Digital Signatures enable encrypted communications and enforce legal validity, thereby making them a vital component of online transactions.

#### ***What is a Digital Certificate ?***

- Electronic Credentials – Tamper proof ID and signature
- Issued by Certification Authority - Trusted Third Party
- Makes security protocols work - SSL, S/MIME, IPSec

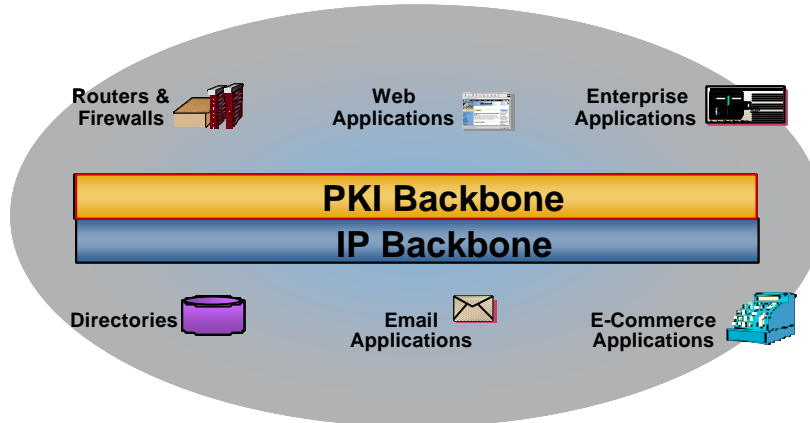


#### ***How legal is it all?***

India is one of a select band of nations that has a Digital Signature Legislation. The Act grants Digital Signatures issued by a licensed Certifying Authority in India the same status as a Physical Signature. The technology specified to deploy Digital Signatures is Public Key Infrastructure (PKI).

## 5. Where can an organisation use Digital Certificates ?

Organisation can leverage Digital certificates to trust enable any existing application internal as well as external to the organisation. The diagram shows how PKI solution enables securing the existing Information processing backbone of an organisation.



Some of these applications can be –

- Intranet ( For internal workflow applications, HR & finance related forms, etc)
- Partner Extranets ( For dealer / supplier / customer / other partners)
- Web Based initiatives ( Requiring strong authentication & signatures )
- Messaging ( For secure internal & external email requirements )
- Enterprise wide Applications ( For Finance apps, ERPs, etc )
- VPNs & Firewall ( For strong authentication & VPN IPsec requirements )

## 6. Business Benefits for Organisation

**Meeting statutory requirements** – Using digital signatures organisations now can fulfill all the statutory requirements even for electronic form of Data. So contracts, agreements, etc can be made and preserved in electronic form. It also enables meeting audit requirements for online business processes.

**Saving Operational Costs** – Using Digital Certificates end to end migration of a paper based process to an electronic process is possible now. This can be leveraged to reduce operation costs (paper, printing, manual labor, courier, etc) and increase operational efficiencies by reducing process cycle time. All of this can be achieved without compromising on any audit requirements or information security.

**Creating New Opportunities** – SafeScript solution can be leveraged by any organisation to extend usage of electronic processes / workflows in new areas and offering new value added services to the customers.

## **7. SafeScript Expertise**

To bring the best of breed solutions to our customers, SafeScript has a team of experienced and highly trained professionals who help our customers every step of the way – from need identification, solution formulation to implementation and on-going support. With expertise across platforms and a variety of projects, these professionals help our customers rapidly translate their ideas into working solutions.

The value our service model offers organizations is



- Low Time to Market
- Low entry cost
- Protection from Technology obsolescence
- Scalability of solution
- Tested and reliable practices
- Highest standards of ongoing security
- Largest Global Network of Interoperable Trust

So when we talk about our services it is not just certificates that we deliver – we do a lot more.

- Provide Expertise on Cryptographic Technologies
- Manage Risks and Liabilities
- Understand Policies and Practices
- Provide a secure Infrastructure
- Provide High Service Availability
- Work with Trusted and Trained Employees
- End user support

## 8. Customer References

### SafeScript Customers in India



Usage of Digital signature for electronic distribution of Contract notes



Usage of Digital certificate & Digital signature for internal & external Messaging system.



L&T ECC

Usage of Digital certificate & Digital signature for L&T ECC Supply chain.



Usage of Digital Certificates with Document Signing Application & for NSE.IT customers.

### VeriSign Customers

#### Financial Services

ABSA Bank  
Air Travel Card  
American Skandia  
Bank of America  
Bank Nationale de Paris  
Brown Brothers Harriman  
Diners Club  
Federal Reserve Bank of NY  
First of America  
First USA Paymentech  
Hong Kong Gov't  
NationsBank  
Novus/Discover  
Merrill Lynch  
Royal Bank of Canada  
TransUnion  
VISA

#### Government

3 Federal Departments  
4 Federal Admin Offices  
4 US Defense Agencies



#### High Technology

EDS  
Hewlett-Packard  
Netscape Netcenter  
NEC  
NTT Data  
Thompson Electronics  
Texas Instruments



#### Legal

Broebeck, Phleger & Harrison  
Limbach & Limbach  
The West Group



#### Publishing

Softbank  
Toppan Publishing



#### Teleco

Ameritech  
AT&T  
British Telecommunications  
Japan Communications  
LHS  
US West  
Qwest Communications



#### Manufacturing

ANX  
Deere & Company  
Miller Brewing  
Mitsubishi Material  
Kodak



#### Other

Arizona Dept of Education  
Montecillo Systems  
University of Pittsburgh  
University of Illinois



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