

## **India Updates**

Asia PKI Consortium: Special Steering Committee Meeting

Confidential

### **Indian Digital Certificate Userbase**



- 110 Million+ eSign (Short Lived Certificate) Users and growing.
- National Regulator: Controller of Certifying Authorities
  - 15 Certifying Authorities licensed by Government
- Signatures Trusted in Adobe & Microsoft Applications



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## **Key Features of eSign**

- Regulated common set of APIs by Government Regulator
- Wide implementation with numerous signing applications and use cases.
- Short Lived Key Pair, and Short Lived Certificates (30 minutes validity), LTV with CRL

#### **Enrolment / Authentication / eSign Cost**

#### UIDAI / Aadhaar based: v2

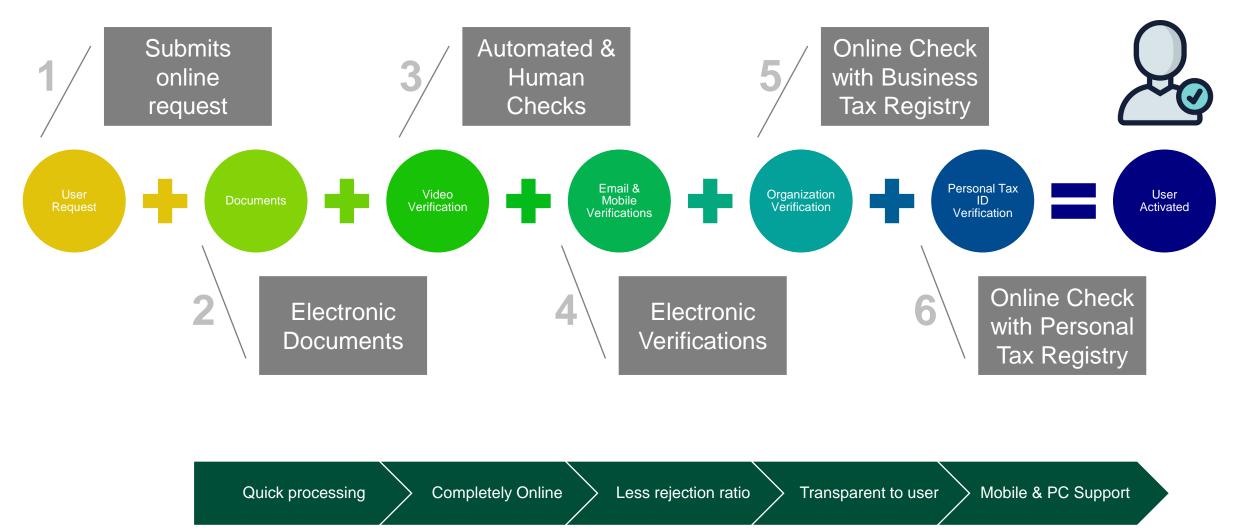
- 1.28 Billion Enrolments (95%+ Population)
- Easy Authentication with Aadhaar (National ID) + OTP
- Cost: USD 0.40 per transaction
- Limited by law for private use cases.

# CA/TSP acting as KYC Provider (Since 2019): v3

- 3 Mn+ Enrolments. Seamless online enrolment with 5-10K+ users everyday.
- Easy Authentication with PIN + OTP, FIDO, Mobile App, Registered Device, etc
- Cost: USD 0.10 per transaction
- Used by all kind of use cases.

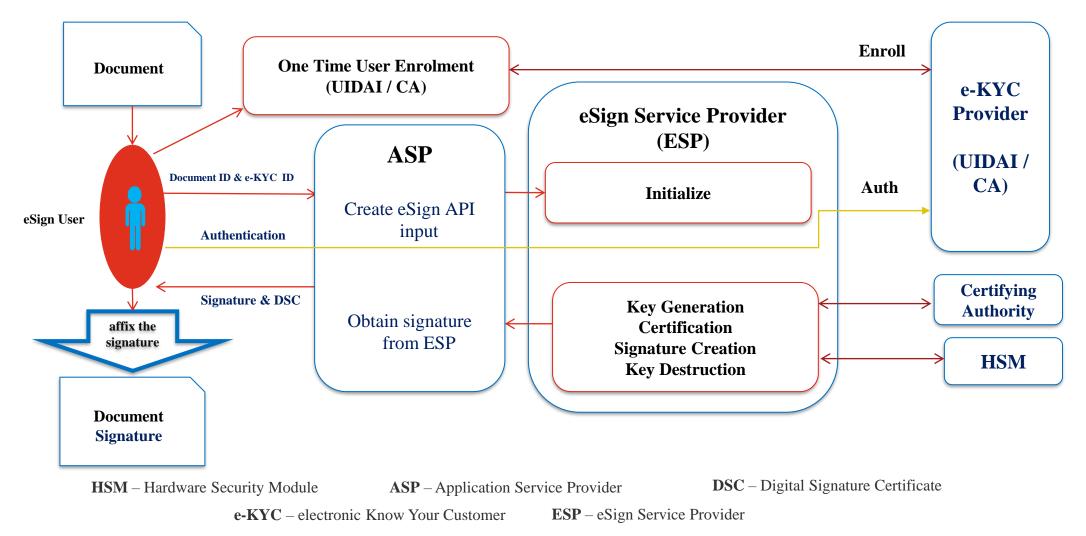


## **The Enrolment Process**





## How eSign (Short Lived Certificates) Work in India





## **Quick comparison: Traditional DSC v/s Online eSign**

	DSC (Long Lived Certificate)	eSign (Short Lived Certificate)
Certificate Type	Individuals & Org Individuals	Individuals & Org Individuals
Integration	Client system driver based integration	Fully online
Dependency	Desktop OS and crypto token is required	No dependency on Hardware
Password handling	After 10 failed attempt, certificate reissuance is required	Web portal based password reset options
Reissuance of certificate	Reissuance of certificate is required if token gets lost	No reissuance required
Hardware cost for User	Yes	No
OS Support	Limited OS support by token vendors	Cross browser cross OS support
Troubleshooting	Driver and other troubleshooting required	High availability of service
Timestamping and LTV	Local Time / Application Dependent	Integrated Timestamping & LTV
Bulk signing	Based on client system configuration	5 documents/transaction
Sign using mobile	Not possible	Yes. Compatible on any device





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