Wipro Consulting

eProcurement

Global Practitioners

Technological Aspects of e-Procurement System

05-06-2007, Shimla - HP

Agenda

- eProcurement Enabler

- eProcurement Technology – Functional Specification Requirement.

- Networking Topology

- Architecture of the Solution (eProcurement)

- Data Center and Disaster Recovery Center

- Service Level Agreement

- Question and Answers

eProcurement: Enablers

Functional Requirement - eProcurement

User Interface Layer

Security Layer

Indent Management	eTendering	eAuction	Rate Contract	Contract Management
Buyer Database	Supplier Database	Alerts	ePayment	MIS

Multiple Channel Delivery

eProcurement: Technology

Secured Infrastructure

Public Key Infrastructure

Hosting Solution

WIPRO
Applying Thought

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Infrastructure @ eProcurement

- HTTP, HTTPS,
- Load balancing
- LAN, WAN

- Servelt/ASP for round robin load balancing
- HTTP over LAN

- LAN
- JDBC/ODBC

- Buyer Management
- Supplier Management
- Tender Management
- Auctions Management
- Catalogue Management

Exhibit: Indicative Schematic Architectural Drawing of eProcurement Infrastructure Deployment

Secured Infrastructure – D.C.

Exhibit: Indicative Schematic Architectural Drawing of eProcurement Infrastructure Deployment at Data Center/ Disaster Recovery Center

Secured Infrastructure - Software

Software

- Sensitive data stored in encrypted format till the time information is supposed to be made public (internal/ external)

- Log-in and audit trails of critical activities

- Adherence to IT Act 2000

- Encryption of data at client end

- SSL enablement

- Integration capabilities

- Secured Legacy Integration

Hosting Solution Capabilities

Cryptography

Private/ Public c

Original Document → Public Key algorithm → Encrypted Document

Original Document ← Public Key algorithm ← Encrypted Document

Private

Two keys = key pair *"Asymmetric Key"* are mathematically related, but not identical.
RSA is an example of a public key algorithm

Digital Signature

- Private Key – Used for making digital signature
- Public Key –Used to verify the digital signature
- Digital Signatures are numbers
- Same Length – 40 digits
- They are document content dependent

I am a Doctor.
ea0ae29b3b2c20fc018aaca45c3746a057b893e7

Certificate

General | Details | Certification Path

Certificate Information

This certificate has expired or is not yet valid.

Issued to: SURESH M VAKKALAD 501851 SURESH M VAKKALAD - RDPR

Issued by: (n)Code Solutions - A Division of GNFC LTD.

Valid from 05/12/2005 to 05/12/2006

You have a private key that corresponds to this certificate.

Issuer Statement

OK

certifiate.pfx

Hash value or simply **hash**, also called a message digest, is a number generated from a string of text. The hash is substantially smaller than the text itself, and is generated by a formula in such a way that it is extremely unlikely that some other text will produce the same hash value.

Input	Hash sum
Fox	Hash function → DFCD3454 BBEA788A 751A696C 24D97009 CA992D17
The red fox runs across the ice	Hash function → 52ED879E 70F71D92 6EB69570 08E03CE4 CA6945D3
The red fox walks across the ice	Hash function → 46042841 935C7FB0 9158585A B94AE214 26EB3CEA

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Service Level Agreement

Thank You

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Our Promise
With utmost respect to *human values*, we promise to serve our customers with *integrity*, through *innovative*, *value for money* solutions, by applying thought, day after day.

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