


Slide 1

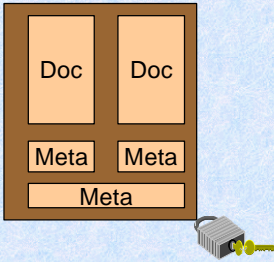
# XML for Electronic Records

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Slide 2

# What is an Electronic Record?



The diagram shows a brown rectangular frame containing five orange boxes. The top row has two boxes labeled 'Doc'. The middle row has two boxes labeled 'Meta'. The bottom row has one box labeled 'Meta' that spans the width of the two boxes above it. To the right of the frame is a small icon of a server rack with a yellow key symbol.

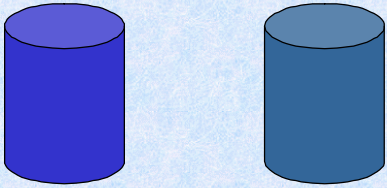


Slide 3


# Standard Database Solution

Metadata Database

Document Database



The diagram shows two blue cylindrical database icons. The left one is a darker blue and is positioned below the text 'Metadata Database'. The right one is a lighter blue and is positioned below the text 'Document Database'.




Slide 4

### Example in Database format

DB:

Name	Date	DocRef
Bill Smith	15071998	12345
Jane Smith	12041999	23456
Jane Doe	12062000	34567
.....	.....	.....


Doc 12345: Contract A5546346 approved



Slide 5

### Example in XML


```
<record>
<name>Bill Smith</name>
<date>15071998</date>
<content>Contract A5546346 approved</content>
<signature>d23sgjh598ds95tjh49j4j4t99i545
</signature>
</record>
```



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### Example

```
<record>
<metadata type=vers.author> Bill Smith</metadata>
...
<metadata type=vers.file>B59</metadata>
<document>
<metadata type=vers.format>email</metadata>
<content>%PDF-1.1.....</content>
</document>
<a-signature>d23sgjh594t99i54555dn24</a-signature>
<d-signature>67gni443kbk5g45ggbk4t4566</d-signature>
</record>
```



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## Electronic Record Requirements

**Requirements:**

- Long-term
- Interpretable
- Verifiable
- Multiple documents
- Findable
- Viewed as original
- Layered context

**XML solution:**


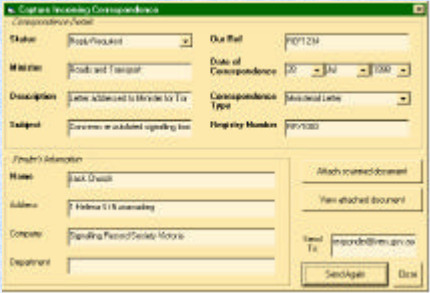
- XML is standard
- Directly readable and in ASCII
- DSig support
- XML flexible structure
- RDF support
- XSL not appropriate
- XML flexible structure



Slide 8

## What does it mean?

**Capture unchanged**



Slide 9

## What does it mean?

**Discovery unchanged**

Authenticated by: Melbourne Port Corporation  
Context: Incoming Mail

**Record Components**

Metadata

Travelling Mail:

**Record Context**

