

# XML for Workflow

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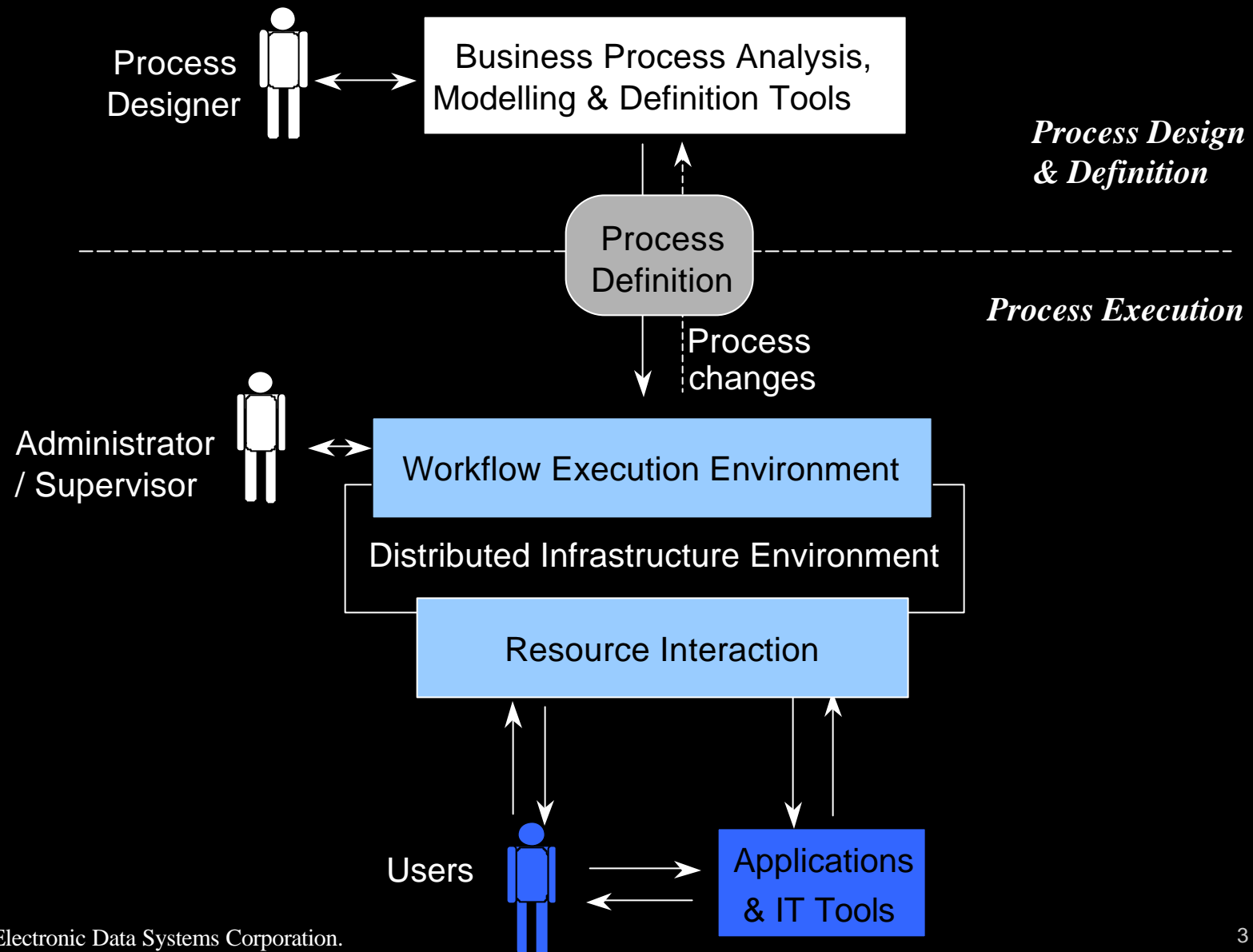
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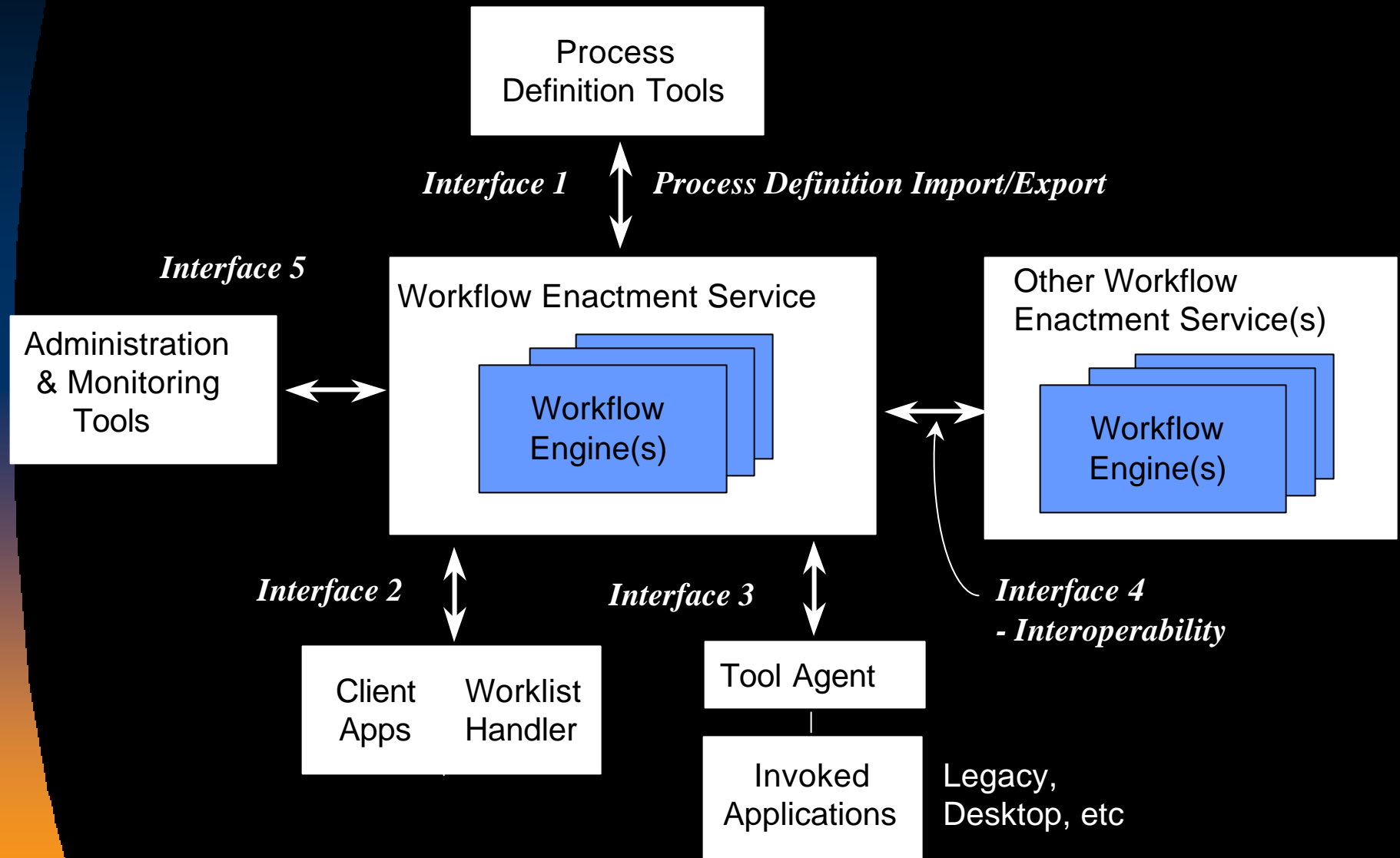
# Agenda

- Workflow reference model
- Process Definition
- Interoperation
- Collaboration
- Meta data
- Application execution
- Process documents

# Process Automation Overview



# The Workflow Reference Model



# XML for Process Definition

- WfMC Workflow Process Definition Language (WPDL)
- OMG UML Extensions for Workflow Process Definition (RFP)
- XMI (XML Model Interchange) from UML

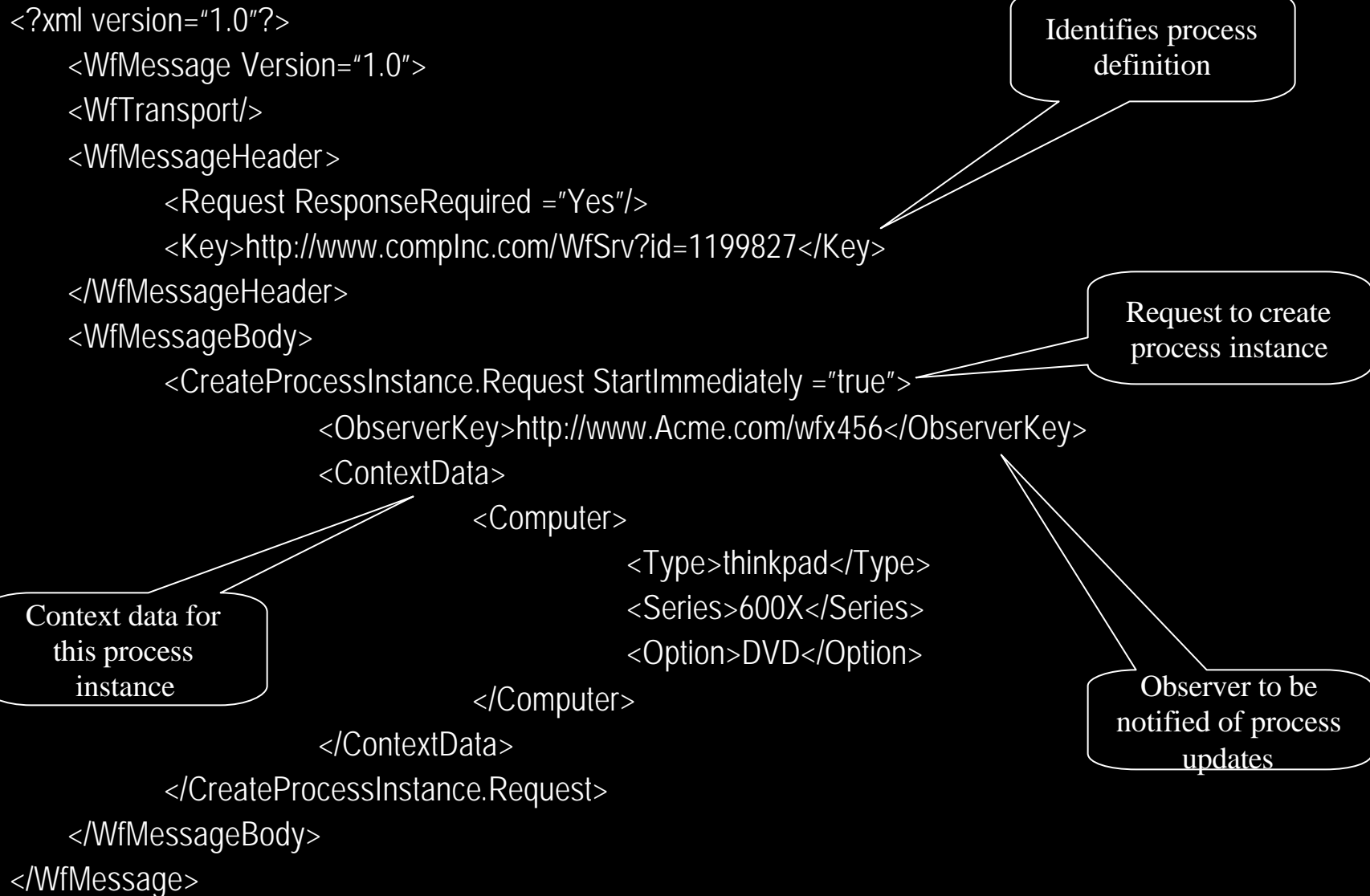
# XML for Interoperation

- Loose coupling
- HTTP over internet
- Heterogeneous systems
- Outsourcing and business partners

# Wf-XML Specification

- Interactions between workflow requesters and service providers
  - A structured and well-formed XML message encoding
  - Synchronous or asynchronous message-handling capability
  - Independence from transport mechanism
- XML message set representing interaction requests and responses
  - Message Header: Indicates message type and target resource
  - Message Body: Operation, operation-specific parameters and error codes
- Based on existing Workflow Interoperability Standards initiatives

# Example: CreateProcessInstance





# XML for Collaboration

## Notification/EAI messages

- Business events
- State changes
- Exceptions
- Negotiation
- Synchronization

Initiate, alter, synchronize workflow process

# XML for Meta Data

- Data about data
  - File type
  - Source application
  - Date, time created
  - Context
  - Ownership
- Management of files, e.g., product design
- Incorporate in business documents
- Application inputs and outputs

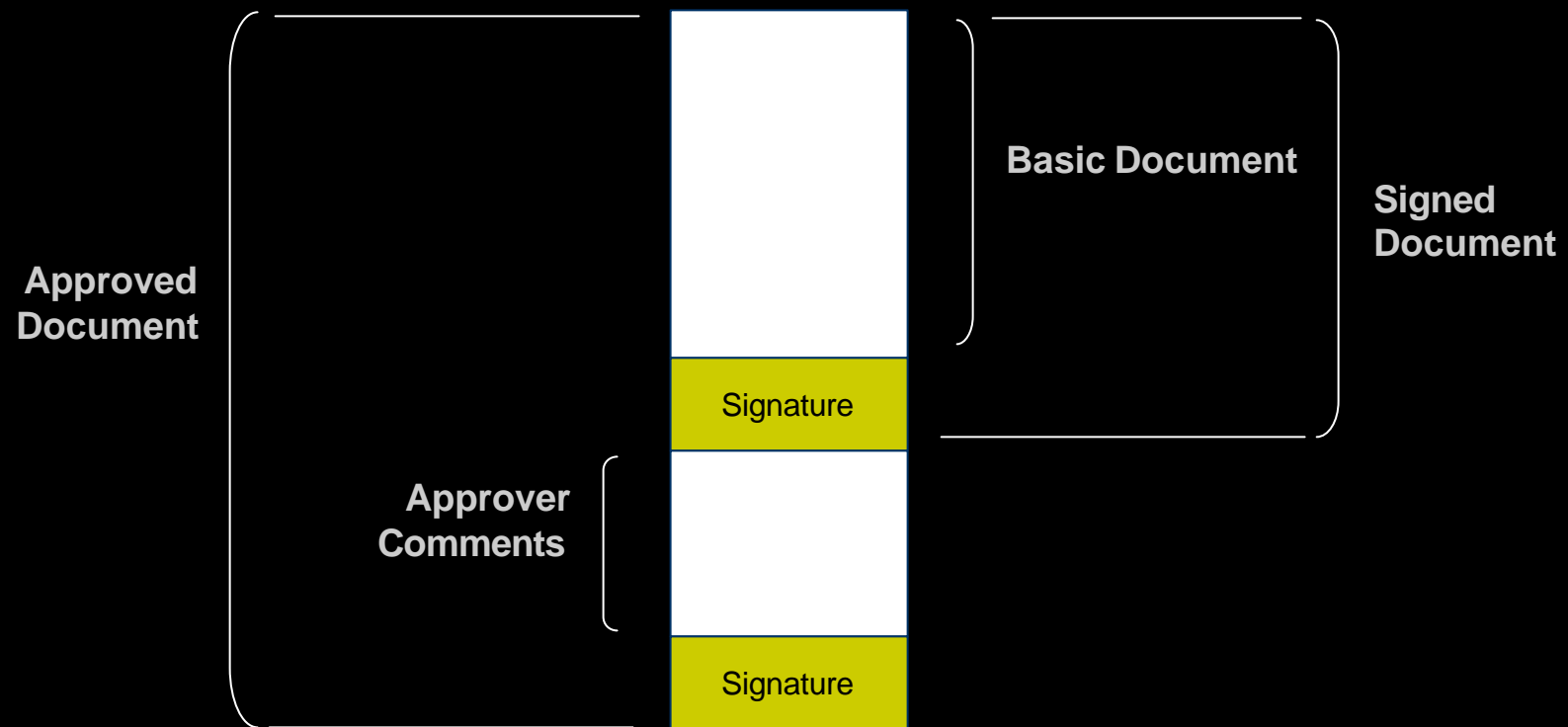
# XML for Application Execution

- Execution request
  - Inputs
  - Parameters
  - Schedule considerations
  - Default templates
- Execution results
  - Outputs
  - Date, time

# XML for Process Documents

- Internal business documents
- B2B & B2C agreements
- Digital signatures
- Audit and history records
- Document views and internationalization

# Signed Documents



## Summary: Why XML

- Flexible, extensible documents
- Technology independent form
- HTTP exchange compatibility
- Ease of browser display
- Signature support
- XSL filtering and internationalization

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