

# Services, Frameworks, and Paradigms for Distributed Multimedia Applications

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Distributed multimedia application development is supported by a growing number of services. While these pave the way for sophisticated multimedia support in distributed systems, using them involves interfacing inconsistent and swiftly evolving technologies. To alleviate this, we propose an encompassing framework that offers all services under a unifying hybrid object/hypermedia paradigm.

The multimedia community agrees almost unanimously that both the largest potential and the most serious problems lie in the development of distributed multimedia (DMM) applications. This evolving domain inherits both its strengths and its liabilities from different and rather incompatible realms. First, multimedia applications may consist either mainly of software, requiring programming activity, or mainly of multimedia content, requiring authoring activity. Second, multimedia application development has focused on solutions for stand-alone computers before "going distributed."

Just as multimedia application development has progressed along two quite separate routes, programming and authoring, so has distributed application development: there is the traditional field of distributed programming and the handling of distributed multiple-media documents (such as the World Wide Web). We use the term distributed authoring for the latter. DMM application develop-

ment, therefore, has to harmonize four fields: multimedia programming, multimedia authoring, distributed programming, and distributed authoring.

To clarify our basic terms, we use "service" here in its broadest sense, covering facets that may also be called function or class library, toolkit, and even framework. A DMM service, then, is a set of functions offered to developers that cover aspects specific to DMM. "Abstractions" denote intuitive, self-contained descriptions of functional units within a service, often collected in software as a set of abstract data types and operations. As multimedia services are still in their infancy, they hardly make abstractions explicit; rather, most of them offer a single common abstraction to the programmer, namely, the application programming interface (API).

Our analysis of distributed application development prompts us to aim for an encompassing framework of tools and services unified by a common paradigm such as "distributed object-oriented programming." An encompassing framework provides

- organized access to all (DMM and other) services relevant to application development, and
- a consistent, simple, and homogeneous view onto these services, following a certain mental model or paradigm.

While APIs do not represent abstractions that encompass several services or are based on a precise mental model, encompassing frameworks do. We present here paradigms to describe virtually all components of frameworks and applications, and abstractions to describe a specific functionality. Figure 1 illustrates general components of DMM development as discussed in this article.

## Multimedia application development

Many services are available to multimedia applications developers. For our purposes, we distinguish between multimedia authoring and programming, and distill from them some general abstractions. We investigate three classes of support systems for multimedia programming in particular: multimedia-augmented services, micro-worlds, and multimedia frameworks.

### Authoring: The synchronization abstraction

Creating a presentation that contains multiple media involves a good deal of media-specific work such as recording, selecting, and editing video,

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The ... International Conference on Distributed Computing Systems ,2000 *DOA'01* Gordon Blair,Douglas C. Schmidt,Zahir Tari,2001 Fundamentals of distributed object systems and their use

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