

# Flexible Distributed Systems for Multimedia Applications

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## Abstract

*This paper discusses how to make a distributed object system flexible so as to satisfy applications' requirements in change of the system environment. The system change is modeled to be the change of not only types of service but also quality of service (QoS) supported by the objects. There are two types of methods changing the objects, one for manipulating the states of the objects and another for changing QoS of the objects. We discuss new relations among methods with respect to QoS. By using the QoS-based relations, we newly discuss a QoS-based compensating way to recover the object from the less qualified state.*

## 1. Introduction

Units of resources in distributed systems are referred to as objects [17]. An object is an encapsulation of data and methods for manipulating the data. CORBA [17] is getting a general framework to realize the interoperable distributed applications. The system is required to be flexible in the change of the system environment and applications' requirements in addition to supporting the interoperability of autonomous objects.

One of the major changes in the system is fault. Replications [2, 3, 10] and checkpointing protocols [6] are approaches to realizing the fault-tolerant system. In addition to the object fault, other properties of the system change. The service supported by the object is characterized by the parameters showing the quality of service (QoS) like frame rate and number of colors. Yoshida and Takizawa [21] model the movement of a mobile object to be the change of QoS supported by the object. It is critical to discuss how to support QoS which satisfies the application's requirement in the change of QoS supported by multimedia objects. In MPEG-4 [14, 15] and MPEG-7, multimedia data is composed of multimedia objects each of which may support a different level of QoS.

An object supports applications with service

through the methods. The method may change not only the state of the object but also QoS supported by the object. Thus, there are considered to be two types of methods, one type for manipulating the state of the object and another for manipulating QoS of the object. Relations among the methods are discussed so far with respect to the states of the objects. For example, a pair of methods are equivalent if the states obtained by applying the methods are the same [1]. In this paper, we discuss kinds of relations among the methods with respect to QoS. Two states of an object are considered to be equivalent if they support the same QoS even if they are not the same. In addition, there are two aspects of QoS, i.e. state QoS and view QoS. The state QoS means QoS which the state of the object intrinsically supports. The applications can view QoS of the object only through the methods. For example, suppose that a multimedia object  $M$  supports higher quality image data and a display method. Here, the application can only view lower quality image if display can output only lower quality image. QoS viewed by display is view QoS of the object  $M$ .

Effects done by methods computed have to be removed if applications' requirements are not satisfied, e.g. the system is faulty. While checkpoints are usually used to do so, the effects can be removed by the compensation [12, 19] of the methods computed. In multimedia applications, it takes time to restore a large volume of high-resolution video data. We can reduce time for recovering the system if data with lower resolution but satisfying the application requirement is restored instead of restoring the high-resolution data. In this paper, we discuss a compensation way where an object  $o_i$  may not be rolled back to the previous state which  $o_i$  has taken but can be surely rolled back to a state supporting QoS which satisfies the application's requirement. We can reduce time for rolling back the objects by this way.

In section 2, we present a model of the system. In sections 3 and 4, we discuss relations among the methods and the compensation on the basis of QoS, respectively.

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