

# CORBA - Common Object Request Broker Architecture

**CORBA** (Common Object Request Broker Architecture) is a distributed object standard defined by the Object Management Group (OMG) in the early 1990s. Its goal was to enable software components written in different programming languages and running on different platforms to communicate seamlessly.

**CORBA** introduced the concept of an Object Request Broker (ORB), which acts as middleware between clients and distributed objects. In essence, CORBA extended the object-oriented programming paradigm into distributed systems by allowing so-called “distant objects” (remote objects) to interact as if they were local.

This was a major step in software integration before REST APIs and microservices became dominant.

## Object Request Broker (ORB)

The **ORB** is the central component of CORBA. It is responsible for:

- locating remote objects,
- forwarding client requests,
- handling communication between distributed components,
- managing object references.

From the programmer’s perspective, calling a remote object method in CORBA looks very similar to calling a local method. The ORB hides the complexity of network communication.

Conceptually:

Client → ORB → Remote Object

Remote Object → ORB → Client

The ORB handles all low-level details such as transport protocols and data encoding.

From:

<https://edu.iit.uni-miskolc.hu/> - Institute of Information Science - University of Miskolc

Permanent link:

[https://edu.iit.uni-miskolc.hu/tanszek:oktatas:iss\\_t:object\\_request\\_broker?rev=1772387043](https://edu.iit.uni-miskolc.hu/tanszek:oktatas:iss_t:object_request_broker?rev=1772387043)

Last update: **2026/03/01 17:44**

