
Architect of an Open World™

# Universal Interface

**The Universal Interface allows GCOS 7 to be integrated into a Services Oriented Architecture (SOA).**

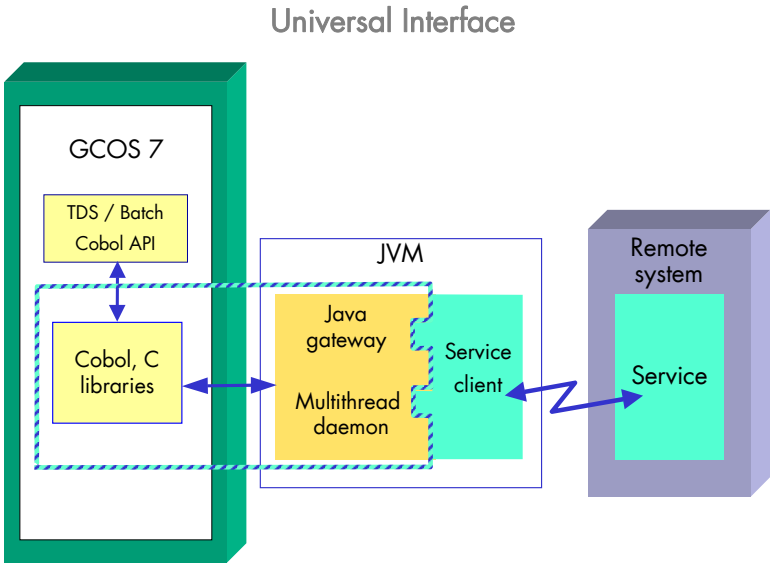
The Universal Interface allows the integration of GCOS 7 applications into a Services Oriented Architecture, while at the same time simplifying the inter-application exchanges.
In this type of architecture, where the operational processes are based on elementary services re-usable by other applications, the Universal Interface allows the activation from GCOS 7 applications of services external to GCOS 7.
The external services are Web Services, the sending of e-mails, ERP functions, Web applications (servlet, ASP ...) etc.
The architecture of the Universal Interface defined by Bull allows applications to call services transparently using the same API regardless of the service to be activated.
The simplicity of deployment enables the chosen solution to become operational very quickly.

This Universal Interface allows access to a Java gateway into which is inserted client code based on the API required for activating the distant function.

## Components of Universal Interface

- Libraries of C and Cobol functions to be installed on GCOS 7.
  Note that the Cobol and C APIs for accessing these functions on GCOS 7 are also provided and documented
- A Java gateway to be installed on a Java platform serving as intermediary between GCOS 7 and the service provider.
  Note that the gateway and the service provider can co-exist on the same platform.
  In the majority of cases, the gateway can be installed on the Windows part of Bull DPS 7000/XTA or NovaScale 7000 systems.

# Architecture




# Technical specifications

## ENVIRONMENT

### GCOS 7 (DPS 7000/TA, DPS 7000/XTA and NovaScale 7000)

| | |
|---|---|
| Cobol Batch | available in service mode |
| TDS | TS9920 |

### Java Platform (where the gateway is installed)

| | |
|---|---|
| JDK 1.4 | |
| Java gateway | available in service mode |

### Communications

TCP/IP network

## FUNCTIONS

### Generic Cobol API

The functions of the Cobol API are listed below :

- **WS-CONNECT**
  to connect to a Service
- **WS-SET-REQUEST**
  to specify the Service required
- **WS-SET-PARAMETER**
  to specify an input parameter of the Service
- **WS-INVOKE**
  to activate a Service
- **WS-GET-PARAMETER**
  to obtain an output parameter
- **WS-DISCONNECT**
  to disconnect from a Service
- **WS-CALL**
  to call a Service based on the preceding API functions

For further information, contact your commercial interface or the NovaScale GCOS Competence Center.

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