

# mc2 REST Manual

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## Introduction

The purpose of the mc2 toolset is to provide the simplest environment as possible for configuring and accessing services, without any development or deployment effort by the scientific application developer. Moreover, the toolset offers some specific features not commonly found in the aforementioned solutions and which can be easily enabled or disabled individually for each customer through configuration. The mc2 REST is a programming-language independent application interface for accessing the mc2 services programmatically. This may be used by science gateways not developed in Java or by other tools interested in accessing the underlying infrastructure in a middleware-independent way.

## Configuring the Tool

The mc2 REST tool configuration is quite simple, since all the logic including the order that the services will be accessed must be implemented by the client. In order of configuring the mc2 REST tool users must fill a properties file called **rest.properties** with *key=value* properties. The properties that may be presented in this file are described below.

The mc2 REST contains a single property (illustrated in Table 1 **Erro! Fonte de referência não encontrada.**) that defines what facade implementations it must look for. This property is optional if the facade implementations are set in the **spring.xml** file on the correct mc2 REST directory structure.

rest.facade.impl	The ID of the face: <b>bes</b> or <b>csgrid</b>
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Table 1- mc2 REST properties

The CSGrid facade implementation requires some attributes for properly working, illustrated in Table 2.

openbus.host	The address where the Openbus is hosted
openbus.port	The port which the Openbus is listening
openbus.csgrid.offers.entity	The name of the Openbus offer entity
openbus.ldap.domain	The ID of the domain for LDAP on Openbus
openbus.voms.domain	The ID of the domain for VOMS on Openbus
csgrid.entity	The CSGrid entity of the gateway on Openbus
csgrid.cert	The Openbus certificate path of the CSGrid
ldap.host	The LDAP host
ldap.port	The LDAP port
ldap.dn	The LDAP DN

Table 2 - CSGrid Properties

The PMES/BES/COMPSS facade implementation requires some attributes for properly working, illustrated in Table 3.

bes.address	PMES/BES web service address
bes.credential.user	PMES/BES username
bes.credential.password	PMES/BES password
bes.cdmi.address	CDMI service address
bes.cdmi.username	CDMI service username
bes.cdmi.password	CDMI service password
ldap.host	The LDAP host
ldap.port	The LDAP port
ldap.dn	The LDAP DN

Table 3 - PMES/BES/COMPSS Properties

## The mc2 REST Structure

The Figure 1 illustrates the directory structure of a mc2 REST. This structure must be followed by the user that configured the REST service or it will not be able to find the required information.

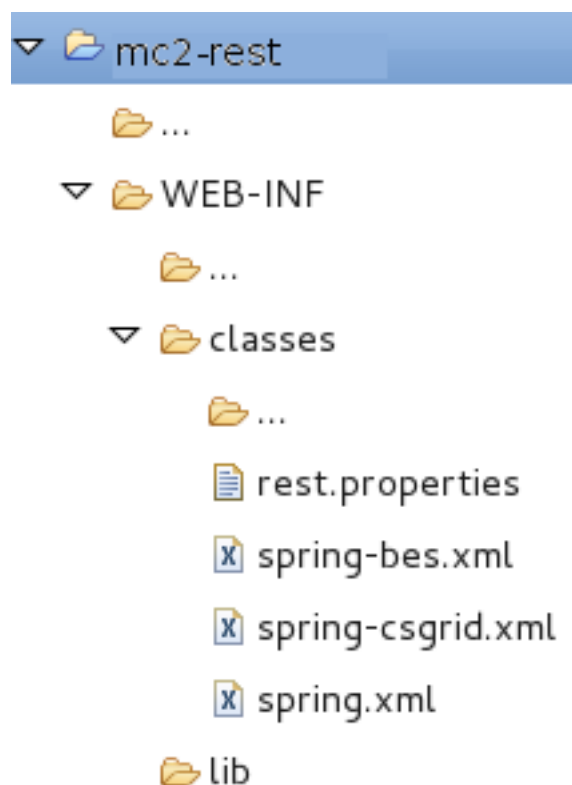


Figure 1 - mc2 REST directory structure