

The *Circulate* architecture: avoiding workflow bottlenecks caused by centralised orchestration

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In all versions of the original article, Fig. 3 was printed incorrectly (lines 3–6). Figure 3 as a whole should read exactly as follows:

```
public interface proxy {
    //Proxy CORE methods
    public String invoke(String wsdl, String port, String op_name, String[] params)
        throws InvocationParameterError, VariableNotFoundError, ServiceInvocationError;
    public String[] upload(Object[] params)
        throws InvocationParameterError;
    public boolean deliver(String proxy_wsdl, String[] dataToMove)
        throws VariableNotFoundError, ServiceInvocationError;
    public boolean stage(Hashtable dataToMove)
        throws ServiceInvocationError;
    public Object[] returnData(String[] dataToReturn)
        throws VariableNotFoundError;
    public boolean flushTempData(String [] dataToRemove)
        throws VariableNotFoundError;

    //Proxy ADMIN methods
    public void addService(String wsdl)
        throws ProxyAdminError;
    public void removeService(String wsdl)
        throws VariableNotFoundError;
    public String[] listOperations(String wsdl, String port)
        throws VariableNotFoundError;
    public String[] listOpParameters(String wsdl, String port, String op_name)
        throws VariableNotFoundError;
    public String[] listOpReturnType(String wsdl, String port, String op_name)
        throws VariableNotFoundError;
    public String[] listServices();
}
```

Fig. 3 WS-*Circulate* Proxy API

The online version of the original article can be found under doi:[10.1007/s10586-009-0072-4](https://doi.org/10.1007/s10586-009-0072-4).

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