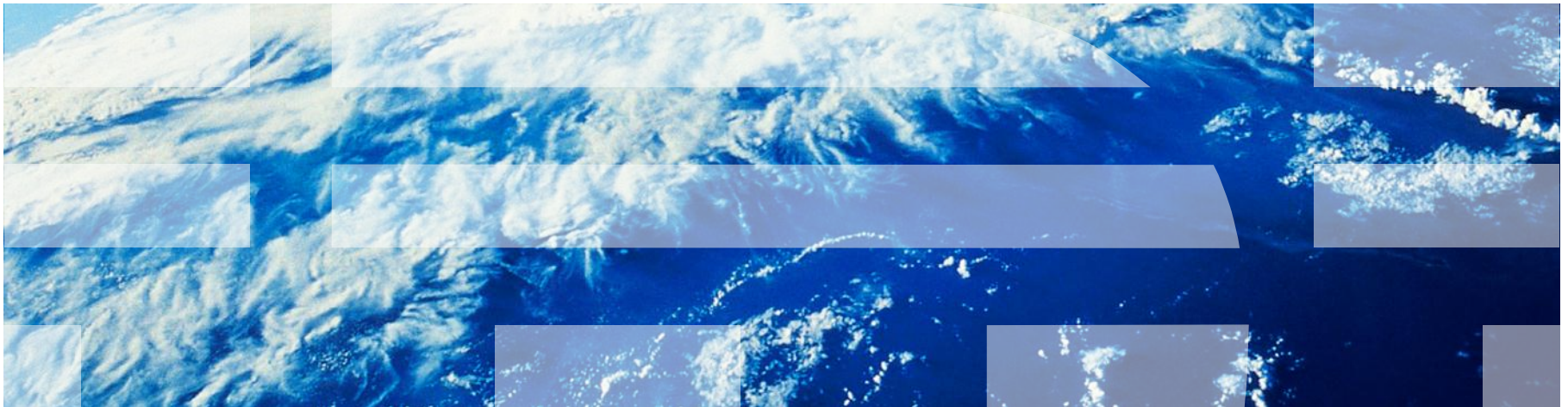


# ***IBM Worklight Foundation V6.2.0 Getting Started***

## **Cast Iron adapter – Communicating with Cast Iron**



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## ***Using this module***

- This module is relevant if you have IBM WebSphere® Cast Iron® live, or some Cast Iron environment that is set up.

# *Agenda*

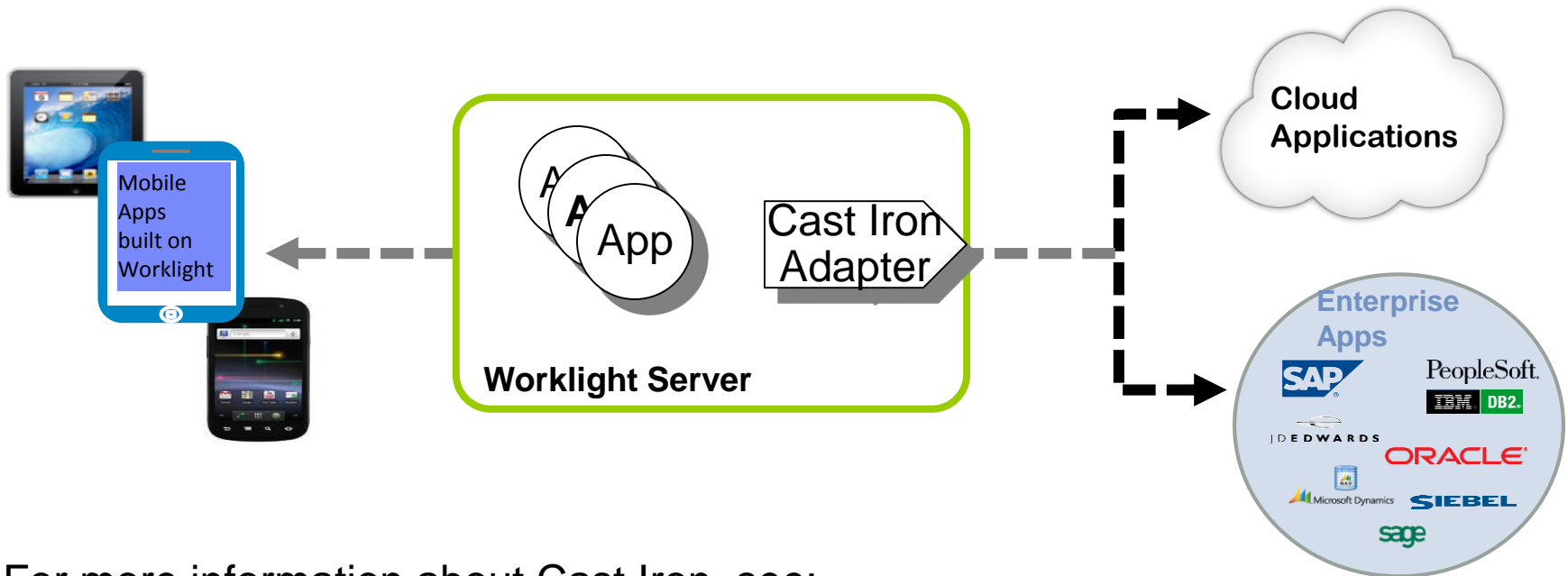
- What is it?
- Creating the adapter

## ***What is it?***

- IBM WebSphere Cast Iron enables companies to integrate applications, whether the applications are located on-premises or in public or private clouds.
- WebSphere Cast Iron provides an approach to integrating applications that does not require any programming knowledge.
- You can build integration flows in WebSphere Cast Iron Studio, which is a graphical development environment that is installed on a personal computer.
  - With Cast Iron Studio, you create an integration project that contains one or more *orchestrations*. Each orchestration is built with a number of activities that define the flow of data.
- IBM Worklight® Foundation contains a Cast Iron Adapter type to integrate with WebSphere Cast Iron.

## What is it? – continued

- A Worklight Cast Iron adapter initiates orchestrations in Cast Iron to retrieve and return data to mobile clients.



For more information about Cast Iron, see:

<http://www.redbooks.ibm.com/redpapers/pdfs/redp4840.pdf>

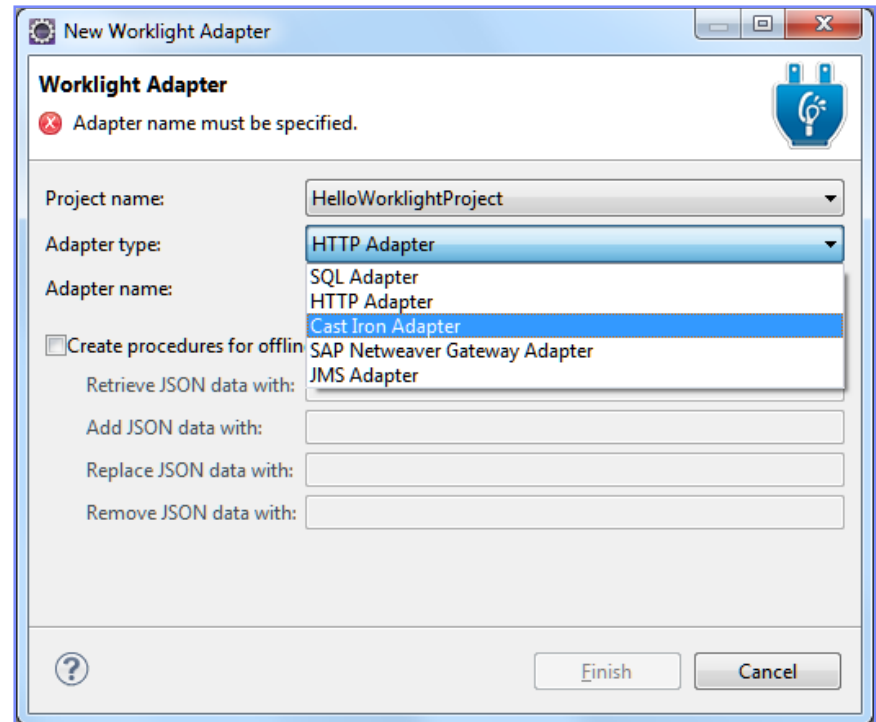
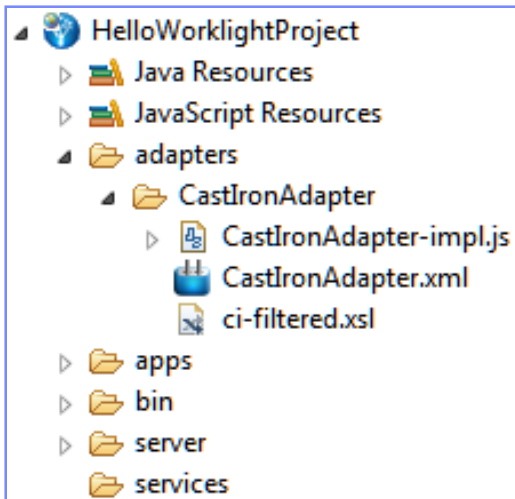
<http://www.redbooks.ibm.com/abstracts/sg248004.html?Open>

# ***Agenda***

- What is it?
- **Creating the adapter**

# Creating the adapter

- In Worklight Studio, create a Worklight Adapter.
  - Choose the Cast Iron Adapter type.
  - A standard Cast Iron adapter structure is created:





# Creating the adapter – continued

## JS File: Procedure implementation

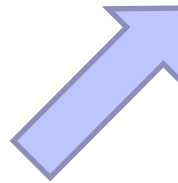
- Procedures are implemented in the adapter JavaScript™ file.
- Procedure names in the JavaScript file must be the same as in the XML file.
- Required invocation parameters are `method`, `appName`, `requestType`, `path`, and `returnedContentType`.
- An optional invocation parameter, `transformation`, has the subparameters `type` and `xslfile`.
- Procedures can be parameterized at run-time.

```
<connectivity>
  <connectionPolicy xsi:type="http:HTTPConnectionPolicyType">
    <protocol>http</protocol>
    <domain>your.CastIron.com</domain>
    <port>80</port>
  </connectionPolicy>
  <loadConstraints maxConcurrentConnectionsPerNode="2" />
</connectivity>
<procedure name="startOrchestration"/>
<procedure name="startOrchestrationFiltered"/>
```

**Procedure XML file**

```
function startOrchestration(orchestrationName){
  var input = {
    method : 'get',
    appName : 'myApp',
    requestType: 'http',
    path : orchestrationName,
    returnedContentType : 'xml'
  };
  return WL.Server.invokeCastIron(input);
}
```

**Procedure JavaScript file**



## Creating the adapter – continued

### JS File: Procedure implementation

- To invoke a Cast Iron request, use the `WL.Server.invokeCastIron` API method.
- Provide an input parameters object.
- Specify:
  - The HTTP method: `get` or `post`.
  - The application name.
  - The request type.
  - The service path.
  - The returned content type: XML, JSON, HTML, or plain.
  - The transformation type (optional).
- For a complete list of invocation options, see the Worklight user documentation.

```
function startOrchestration(orchestrationName){  
    var input = {  
        method : 'get',  
        appName : 'myApp',  
        requestType: 'http',  
        path : orchestrationName,  
        returnedContentType : 'xml'  
    };  
    return WL.Server.invokeCastIron(input);  
}
```

## Creating the adapter – continued

### XSL file: Transformation filters

- An XSL transformation can be applied to the received data.
- It can be used to filter received data.
- To apply, specify the transformation options in the procedure invocation input parameters.

```
function startOrchestrationFiltered(orchestrationName){
    var input = {
        method : 'get',
        appName : 'myApp',
        requestType: 'http',
        path : orchestrationName,
        returnedContentType : 'xml',
        transformation : {
            type : 'xslFile',
            xslFile : 'ci-filtered.xsl'
        }
    };
    return WL.Server.invokeCastIron(input);
}
```

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