



# SPRING FRAMEWORK

**MORE CONTEXT FEATURES**

APRIL, 2015

**client.properties**

id=1

name=John Smith

greeting=Hello there!

**client.properties**

```
id=1  
name=John Smith  
greeting=Hello there!
```

```
<bean class="org.springframework.beans.factory.config.  
    PropertyPlaceholderConfigurer">  
    <property name="locations">  
        <list>  
            <value>classpath:client.properties</value>  
        </list>  
    </property>  
    <property name="ignoreResourceNotFound" value="true"/>  
    <property name="systemPropertiesMode" value="override "/>  
</bean>
```

```
<bean id="client" class="...">  
    <constructor-arg>${id}</constructor-arg>  
    <constructor-arg value="${name}">  
    <property name="greeting"  
        value="${greeting}"/>  
</bean>
```

<beans

xmlns="http://www.springframework.org/schema/beans"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xmlns:util="http://www.springframework.org/schema/util"

xsi:schemaLocation="

http://www.springframework.org/schema/beans

http://www.springframework.org/schema/beans/  
spring-beans-3.2.xsd

http://www.springframework.org/schema/util

http://www.springframework.org/schema/util/  
spring-util-3.2.xsd"

>

# NAMESPACE *UTIL*

---

```
<property name="type">  
    <util:constant  
        static-field="java.lang.Math.PI"/>  
</property>
```

```
<util:properties id="clientProps"  
    location="classpath:client.properties"/>
```

```
<util:map id="loggerMap">  
    <entry key="INFO"  
        value-ref="consoleEventLogger"/>  
    <entry key="ERROR"  
        value-ref="combinedEventLogger"/>  
</util:map>
```

```
<util:map id="..."  
    map-class="java.util.TreeMap">
```

# NAMESPACES *P* AND *C*

```
<beans xmlns="http://www.springframework.org/schema/beans"
       xmlns:p="http://www.springframework.org/schema/p"
       xmlns:c="http://www.springframework.org/schema/c"
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

...

```
<bean id="client" class="..."
      c:name="${name}"      -- Debug symbols needed for c:name !
      p:greeting="Hello" />
```

```
<bean id="app" class="..."
      p:client-ref="client" />
```



```
<bean id="..." class="..." autowire="..." />
```

- **byName** - Property name
- **byType** - Bean class in property
- **costructor** - Bean class in constructor

```
<bean id="..." class="..." autowire="..." />
```

- **byName** - Property name
- **byType** - Bean class in property
- **costructor** - Bean class in constructor

- can't be used with primitives, String, and class
- direct reference has higher priority

# AWARE INTERFACES

```
public class Aaa implements ApplicationContextAware {  
    public void setApplicationContext(  
        ApplicationContext ctx) {...}  
}
```

- ApplicationContextAware
- ApplicationEventPublisherAware
- BeanFactoryAware
- BeanNameAware
- ResourceLoaderAware
- ServletContextAware
- ...

# CONTAINER EVENTS

---

```
public class Monitor implements ApplicationListener {  
    public void onApplicationEvent (  
        ApplicationEvent event) {...}  
}
```

- ContextStartedEvent
- ContextStoppedEvent
- ContextRefreshedEvent
- ContextClosedEvent



# THANK YOU

**YURIY\_TKACH@EPAM.COM**

APRIL, 2015