

**火龙果讲堂：**

- 一线专家
- 案例回顾
- 经验分享

# 自动化测试框架AC

## —设计、开发与应用

柳胜

本讲座语音实录：[uml.org.cn](http://uml.org.cn) 的讲座吧

QQ群：155988217（自动化测试）

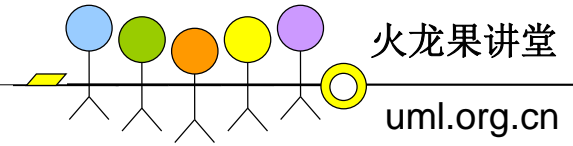
- 自动化回归测试
- 手工测试与自动化测试
- 每日构建
- 持续集成

- 单元测试
- 集成测试
- 系统测试
- 性能测试
- 自开发工具

- 自动化测试目标?
- 

$$\text{Effectiveness} \approx \frac{\text{OneManualExecutionTime} * \text{NumberOfPlatforms}}{\text{ReleaseTestMaintananceTime}}$$

# AC的用户是谁



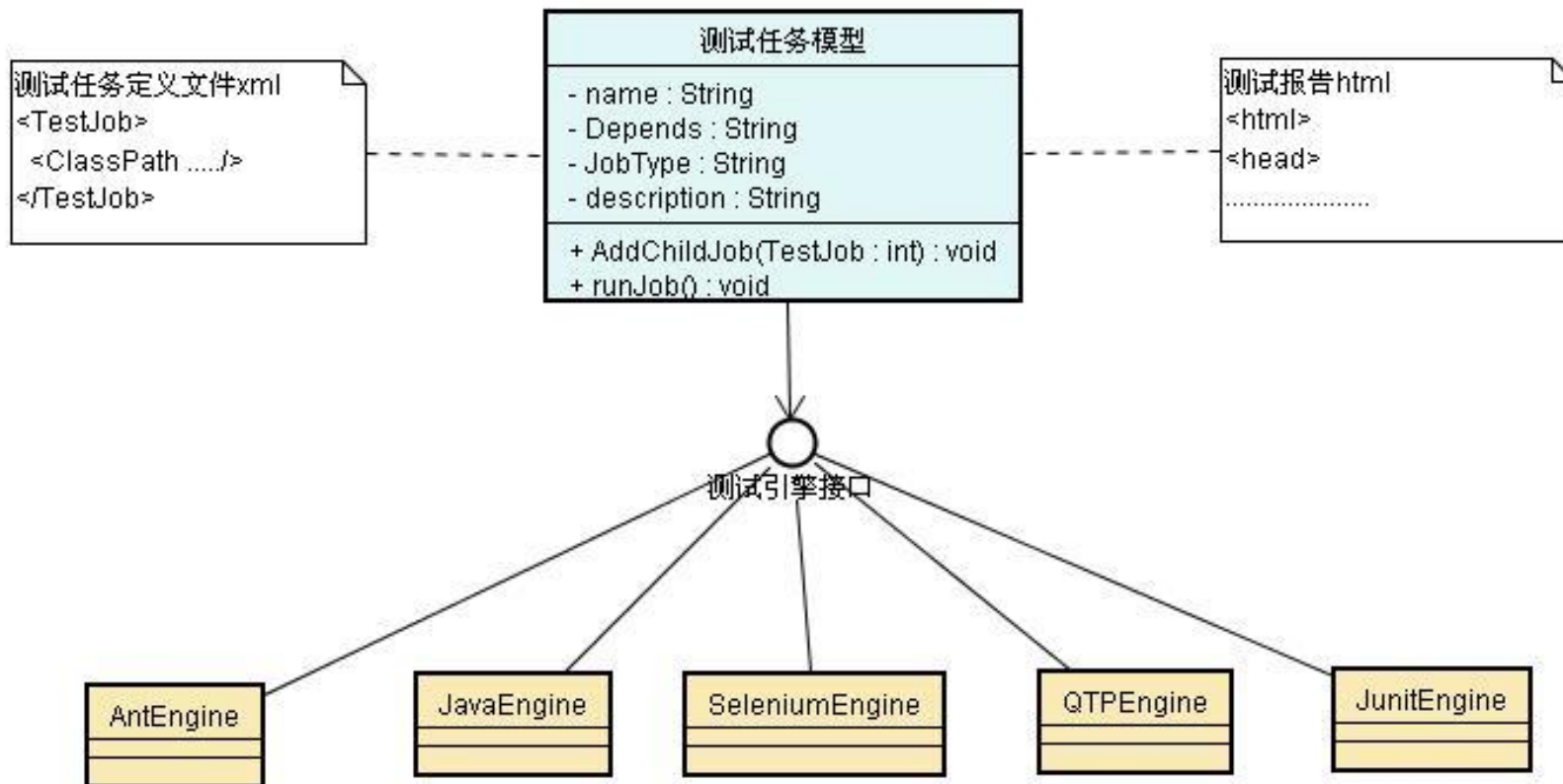
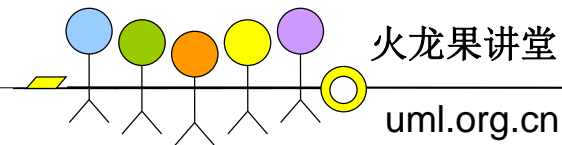
- 手工测试人员
- 自动化测试开发人员
- 自动化测试管理人员
- 开发人员
- 开发经理
- 测试经理
- 产品经理

- 多种工具驱动，中央管理调度，统一展现报告
- **AC**任务模型核心
- 全局数据通道
- 可自定义的报告模式
- 分布式并行计算

- Java based
- Xml+Xsl的报告模式
- 基于接口扩展的多任务引擎
-

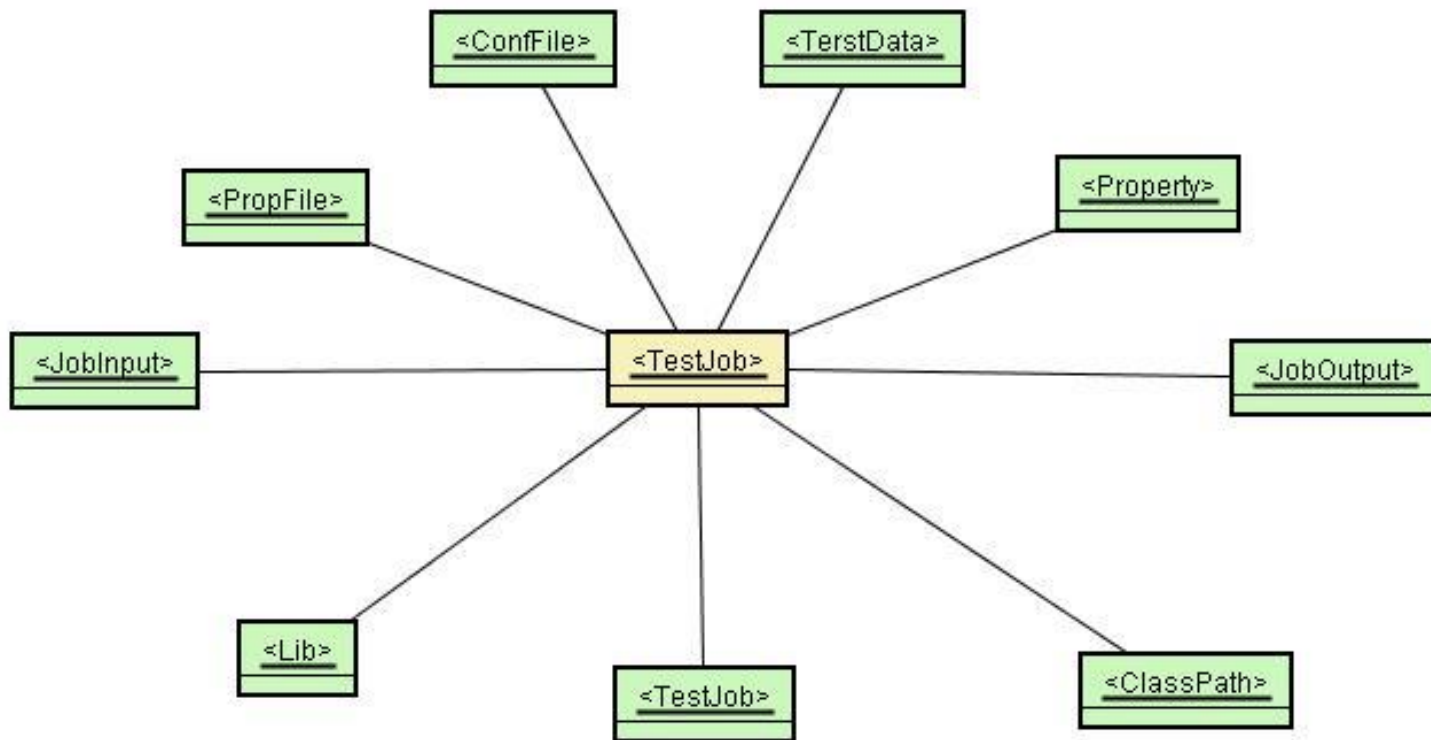


# AutomationCenter架构

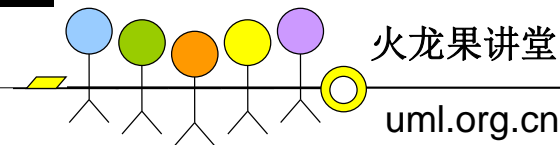


- <QTP>
- <Selenium>
- <Jemmy>
- <iOS>
- <JUnit>
- <TestNG>
- <WebService>
- <Ant>
- <Jmeter>
- <Script>

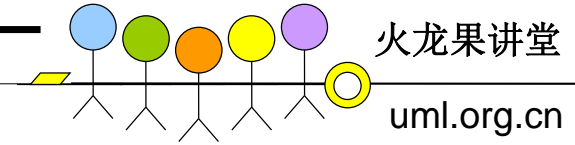
# AutomationCenter任务模型



- name: TestJob的名称
- description: TestJob的描述信息
- depends: TestJob的依赖信息。比如在TestJob A的depends定义为Test Job B，则AC会首先运行B，并根据B的成败，判断是否执行A。
- Timeout: job运行的超时时间
- Host: job运行的主机信息

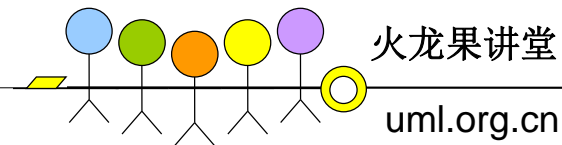


- <JobInput>: 测试任务输入信息
- <JobOutput>: 测试任务输出信息
- <PropFile>: 环境文件
- <ConfFile>: AC配置文件
- <TestData>: 测试数据, 支持xml和xls
- <Lib>: QTP TestJob专用, AC在启动QTPjob时, 会加载相应的lib文件
- <ClassPath>: Java TestJob专用, AC在运行java job时, 会调用classloader将所引用到的jar包装载至jvm中



- <PrekillProcess>: 预杀进程
- <Case>: 测试案例
- <Test>: 测试

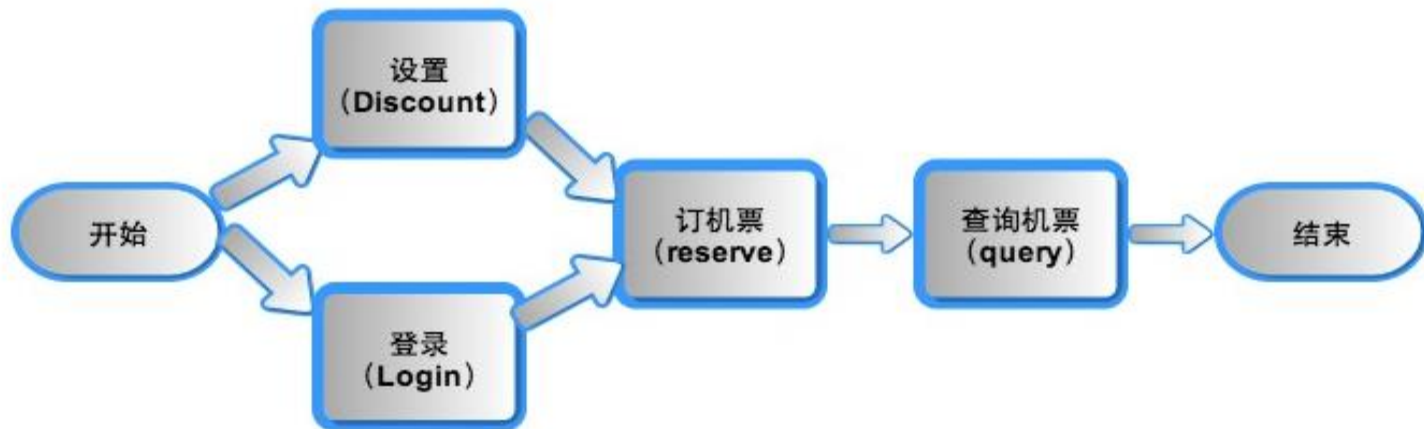
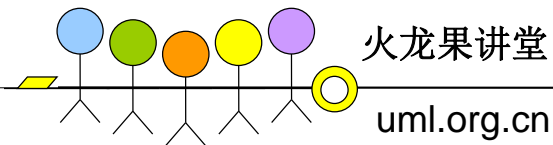
# Automation Center的任务依赖



## Job描述 TestJobFile.xml

```
<TestJob name="login" depends="">...</TestJob>  
<TestJob name="reserveFlight" depends="login">...</TestJob>  
<TestJob name="queryFlight" depends="reserveFlight">...</TestJob>
```

# Automation Center的任务依赖2

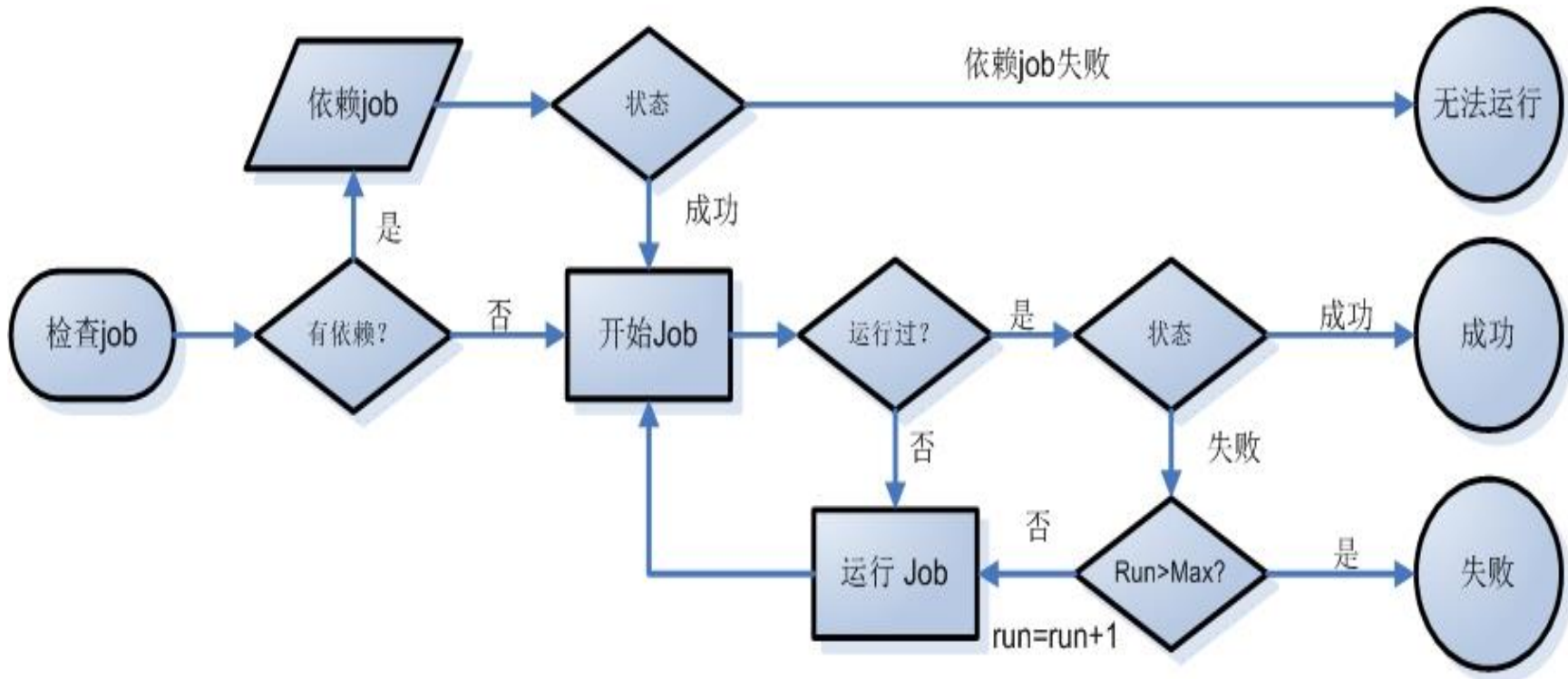


## Job描述 TestJobFile.xml

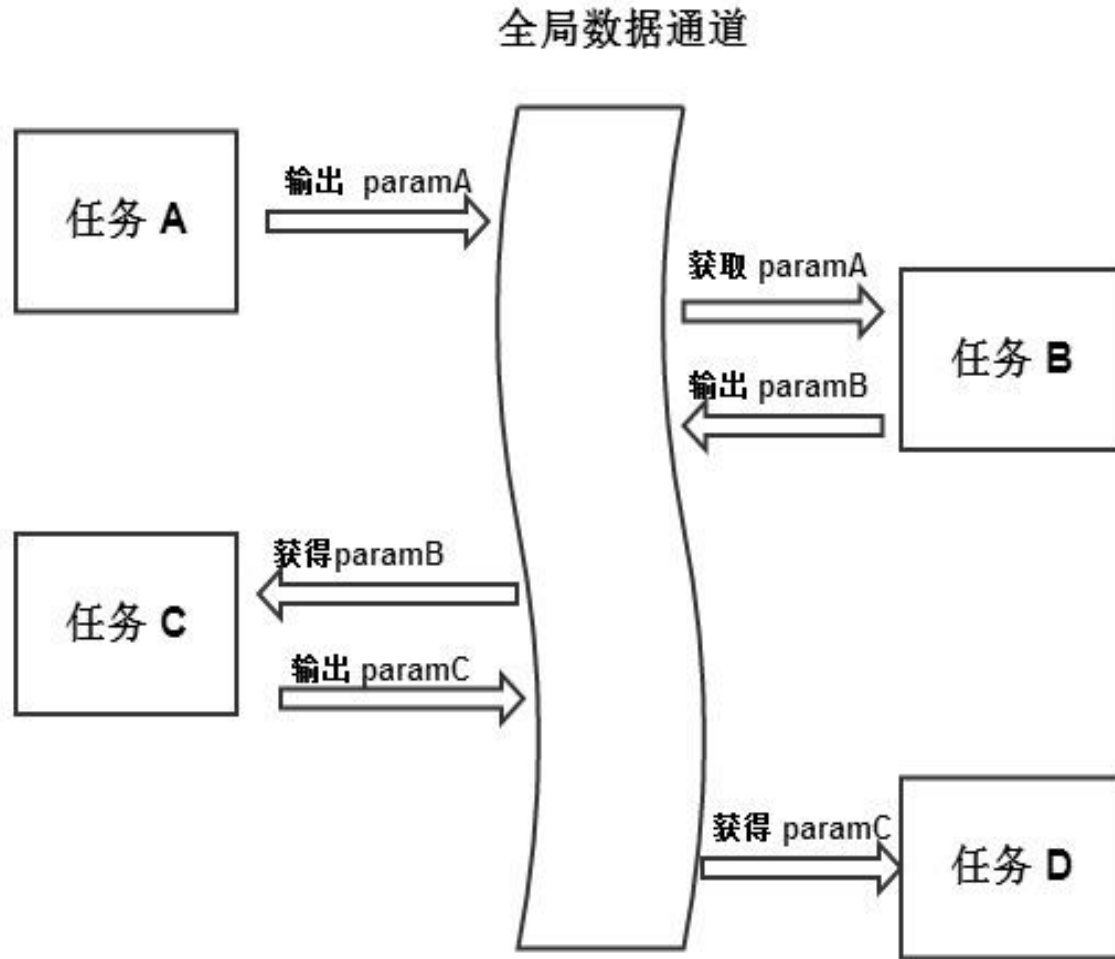
```
<TestJob name="login" depends="">...</TestJob>  
<TestJob name="setDiscount" depends="">...</TestJob>  
<TestJob name="reserveFlight" depends="login,setDiscount">...</TestJob>  
<TestJob name="queryFlight" depends="reserveFlight">...</TestJob>
```



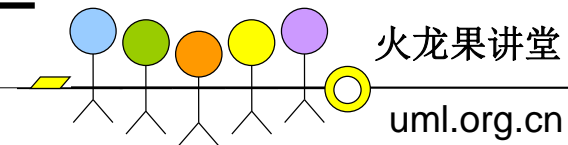
# Automation Center的任务依赖运行原理



# Automation Center的全局数据通道



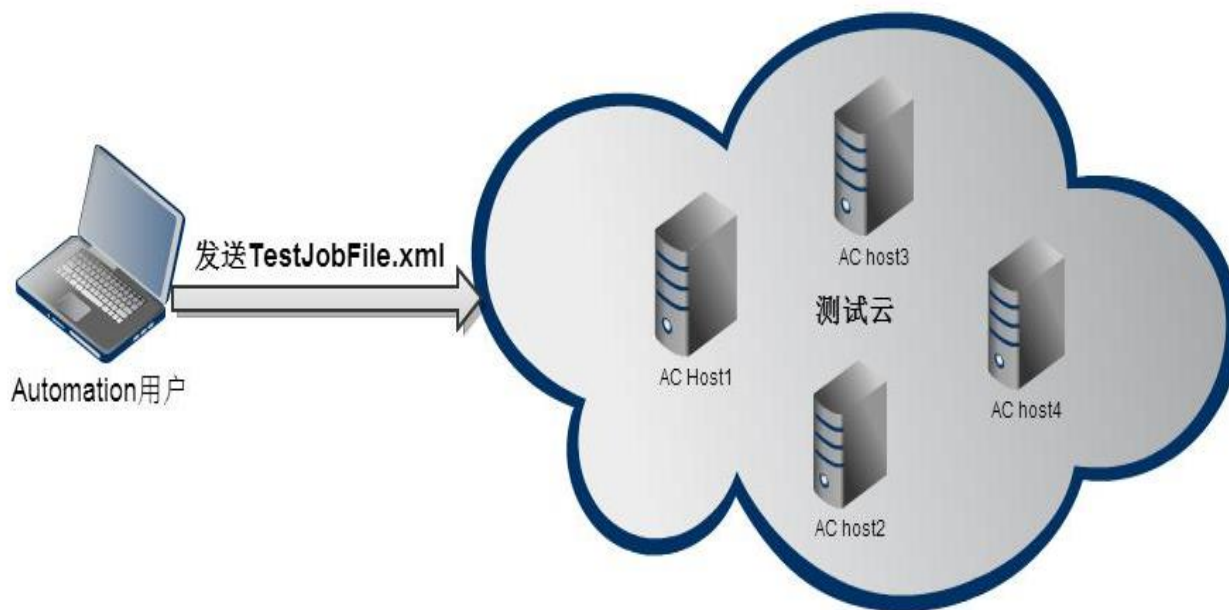
# AutomationCenter 任务模型例子



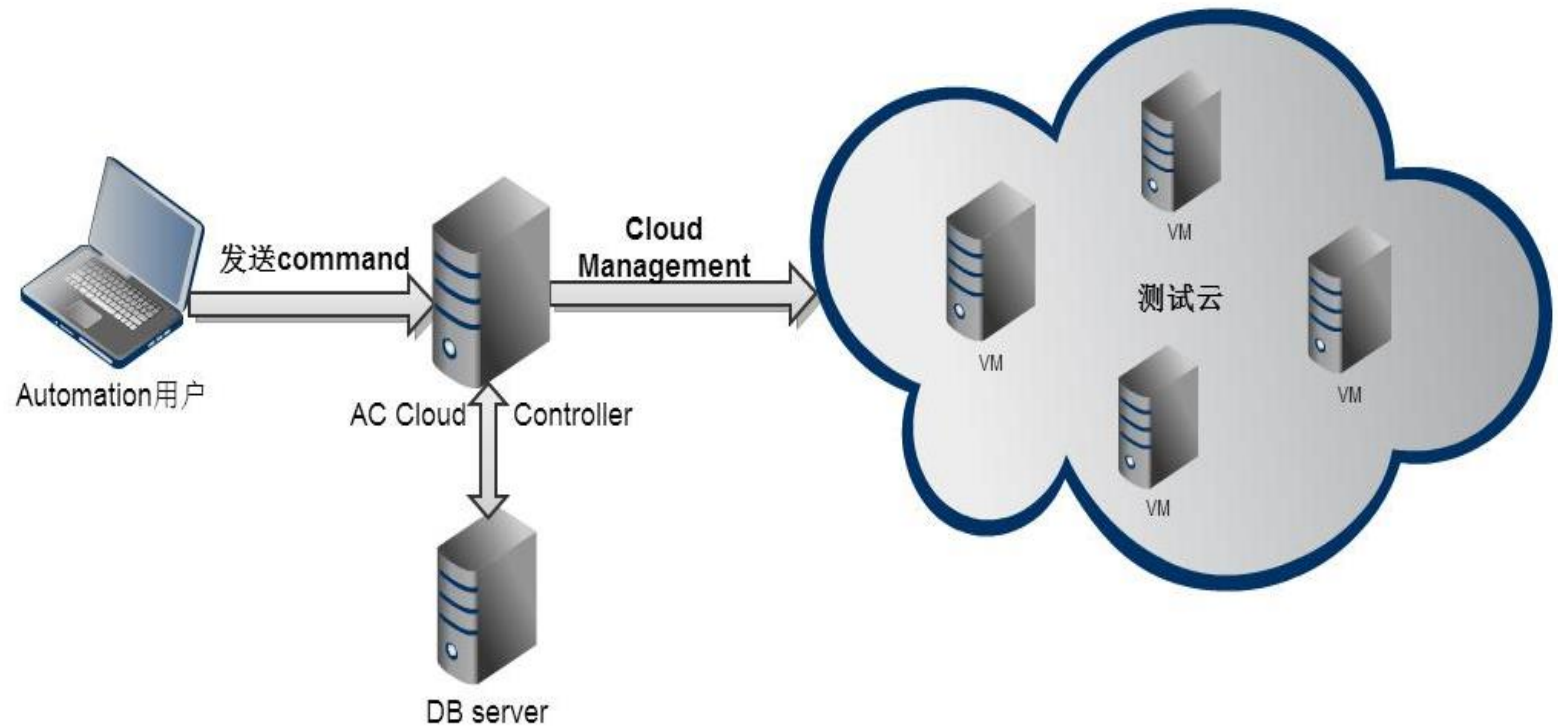
## Job描述 TestJobFile.xml

```
<TestJob>
  <QTP name="QTP_DesktopClientTest_BookFlight" description="demo" factoryMode="true" depends=" " iteration="">
    <Lib location="testscripts\DesktopClient\testcase.vbs"/>
    <JobOutput name="FlightNumber"/>
    <Testdata type="xsl" location="data\data_global_shining.xls"/>
    <Testdata type="iteration" location="data\testdata.xls"/>
    <Case name="flightDemo" description="to test flight system" >
      <Test name="login" description="login flight"/>
      <Test name="bookFlight" description="login flight"/>
    </Case>
  </QTP>
  <Selenium name="Selenium_Web_QueryFlight" description="check flight on web" depends="QTP_DesktopClient_BookFlight">
    <ClassPath location="selenium\selenium-java-client-driver_self_extended.jar"/>
    <ClassPath location="selenium\my.jar"/>
    <JobInput name="FlightNumber"/>
    <SelTestCase path="selJava">
      <SelTest name="testSelJava "/>
    </SelTestCase>
  </Selenium>
</TestJob>
```

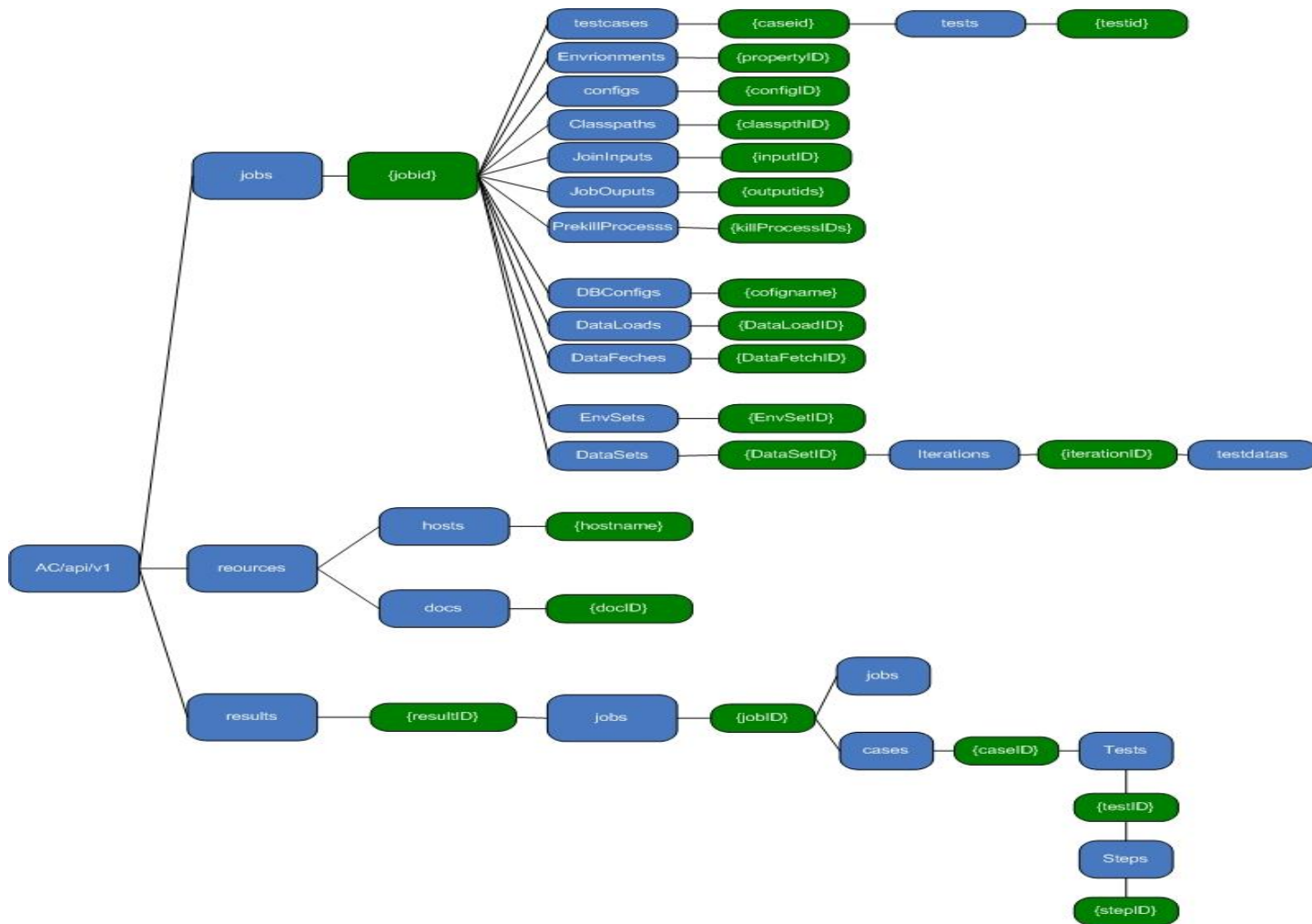
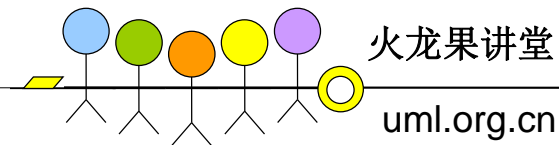
# AutomationCenter 简单部署

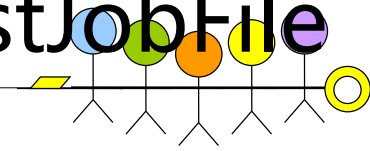


# AutomationCenter 云部署



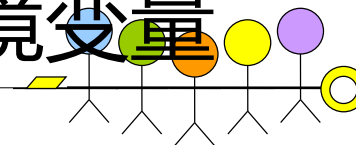
# AutomationCenter 云资源





## TestJobFile.xml

```
<TestJob>  
  <QTP>  
    <Selenium>  
      .....  
</TestJob>
```



## InstanceInfo.xml

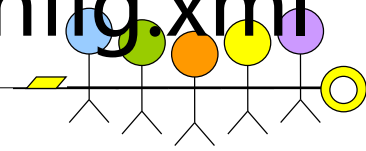
```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE properties SYSTEM "http://java.sun.com/dtd/properties.dtd">
<properties>
<comment>This is Config xml for instance</comment>
<entry key="SSL">>false</entry>
<entry key="FTP_PORT">2121</entry>
<entry key="USER1">shining.liu</entry>
<entry key="MX_PORT">21401</entry>
<entry key="USER3">mingzhu.niu</entry>
<entry key="IMAP_PORT">5143</entry>
<entry key="USER2">siyu.gu</entry>
<entry key="SMTP_PORT">5143</entry>
<entry key="MAIL_DOMAIN">coseo.com</entry>
<entry key="BUILD">BUILD_2.0_WIN_091204.0615</entry>
<entry key="PASSWD">Welcome1</entry>
<entry key="COMP">QTP_DesktopClientTest_AC</entry>
<entry key="SERVER">instance1.coseo.com</entry>
</properties>
```



# AutomationCenter 配置文件-Config.xml

火龙果讲堂

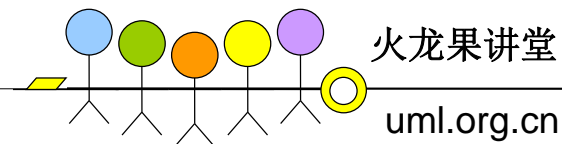
uml.org.cn



## config.xml

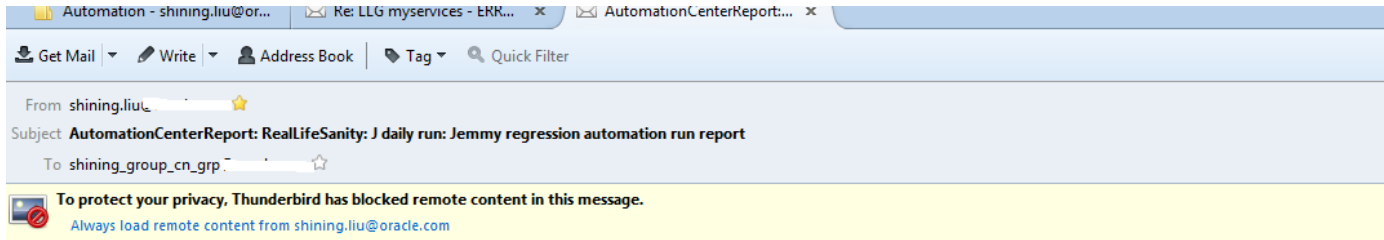
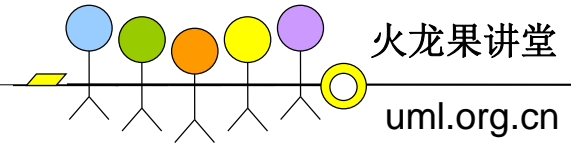
```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE properties SYSTEM "http://java.sun.com/dtd/properties.dtd">
<properties>
<comment>This is Config xml for AC agent,the screen shot value could be
ERROR,NONE,ALL</comment>
<entry key="RECOVERY_LEVEL">1</entry>
<entry key="SCREENSHOT">ALL</entry>
<entry key="RESULT_BASE">results</entry>
<entry key="SYNC_TIMEOUT">50</entry>
<entry key="TEST_TIMEOUT">18000</entry>
<entry key="FTP_UPLOAD">>true</entry>
<entry key="FTP_SERVER">ftp.coseo.com</entry>
<entry key="FTP_PORT">21</entry>
<entry key="FTP_USER">auto</entry>
<entry key="FTP_PASSWD"></entry>
<entry key="waitTimeLow">10</entry>
<entry key="waitTimeMedium">20</entry>
<entry key="waitTimeHigh">50</entry>
</properties>
```

# AutomationCenter 上传和通知功能



```
<AC name="EndJob" description="" depends="">
  <BuildReport path="."/ />
  <UploadReport ToDo="Yes">
    <FtpServer>$CONFIG.FTP_SERVER</FtpServer>
    <FtpUser>$CONFIG.FTP_USER</FtpUser>
    <FtpPasswd></FtpPasswd>
    <FtpDir>$ENV.BUILD</FtpDir>
  </UploadReport>
  <MailReport ToDo="yes">
    <MailConfig location="MailConfig.xml" />
    <MailTemplate location="template/MailConfig.xml" />
    <To>asa@aaa.com</To>
    <Cc>adda@gmail.com</Cc>
    <Subject>This is a report generated by
framework</Subject>
  </MailReport>
</AC>
```

# AutomationCenter 上传和通知功能



## Full Report Link

[RTCTestScenario](#)   [RealLifeSanity](#)   [PerformanceReport](#)

## Automation Center Test Report

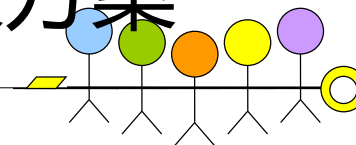
Product Version:WCRTC\_MAIN\_LINUX.X64\_120523.1710  
Date: 12-05-25 01:40:08  
Test Account: rlsuser  
OS: Windows XP, 5.1  
Test Language: zh\_CN  
Elapsed Time: 22 min 23.153999999999996 sec

## Summary

Suite:	Test Case			Pass
	Pass	Fail	CNR	
RealLifeSanity	33 [89%]	4 [11%]	0 [0%]	36 [90%]

## Suite: RealLifeSanity

Component	Test Case			Pass
	Pass	Fail	CNR	
<a href="#">initEnv_agentReady</a>	1 [100%]	0 [0%]	0 [0%]	1 [100%]
<a href="#">Open_PPT_JAVA</a>	1 [100%]	0 [0%]	0 [0%]	1 [100%]
<a href="#">RTC_createConf_JavaFX</a>	3 [100%]	0 [0%]	0 [0%]	3 [100%]
<a href="#">RTC_joinConf_RestAPI</a>	3 [100%]	0 [0%]	0 [0%]	3 [100%]
<a href="#">RTC_joinConf_iOS</a>	3 [100%]	0 [0%]	0 [0%]	4 [100%]



## 使用AC任务模型解决方案

1. 安装，部署，测试自动化
2. 金融系统交易测试自动化
3. 多版本测试
4. 视频会议自动化测试
5. 持续集成

# AC自动化解决方案案例一：安装部署测试自动化

- AC报告模式
- <Script> ----- 安装
- <JDBC> ----- 数据创建
- <WebService> -----接口测试
- <QTP> -----客户端验证

# AC自动化解决方案案例一：安装部署测试自动化 - 成果

## Summary

Suite:	Test Case		
	Pass	Fail	CNR
AutomationCenterDemoSuite	47 [94%]	2 [4%]	0 [0%]

## Suite: AutomationCenterDemoSuite

Component	Test Case		
	Pass	Fail	CNR
<a href="#">Beehive_Silent_Install</a>	1 [100%]	0 [0%]	0 [0%]
<a href="#">Init_Env_Java</a>	1 [100%]	0 [0%]	0 [0%]
<a href="#">mailAPI</a>	1 [50%]	0 [0%]	0 [0%]
<a href="#">OBEO</a>	22 [96%]	1 [4%]	0 [0%]
<a href="#">CrossTest</a>	10 [100%]	0 [0%]	0 [0%]
<a href="#">Beetube</a>	7 [100%]	0 [0%]	0 [0%]
<a href="#">OBEE</a>	5 [100%]	0 [0%]	0 [0%]
<a href="#">mailAPI_BDKTest_WebService</a>	0 [0%]	1 [100%]	0 [0%]

# AC自动化解决方案案例二：金融系统测试自动化

- <QTP name="login">
- <QTP name="TransferOut">
  - <JobOutput name="howmuch">
- <Selenium name="CheckIn">
  - <JobInput name="howmuch">

# AC自动化解决方案案例二：金融系统测试自动化 - 成果

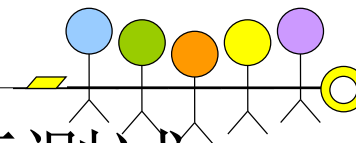
## Summary

Suite:	Test Case	
	Pass	Fail
AutomationCenterDemoSuite	11 [100%]	0 [0%]

## Suite: AutomationCenterDemoSuite

Component	Test Case	
	Pass	Fail
<u>Init Env</u>	1 [100%]	0 [0%]
<u>DeskTopClient CreateMeeting QTP</u>	8 [100%]	0 [0%]
<u>Ant StartSelenium</u>	1 [100%]	0 [0%]
<u>WebClient VerifvMeeting Selenium</u>	1 [100%]	0 [0%]

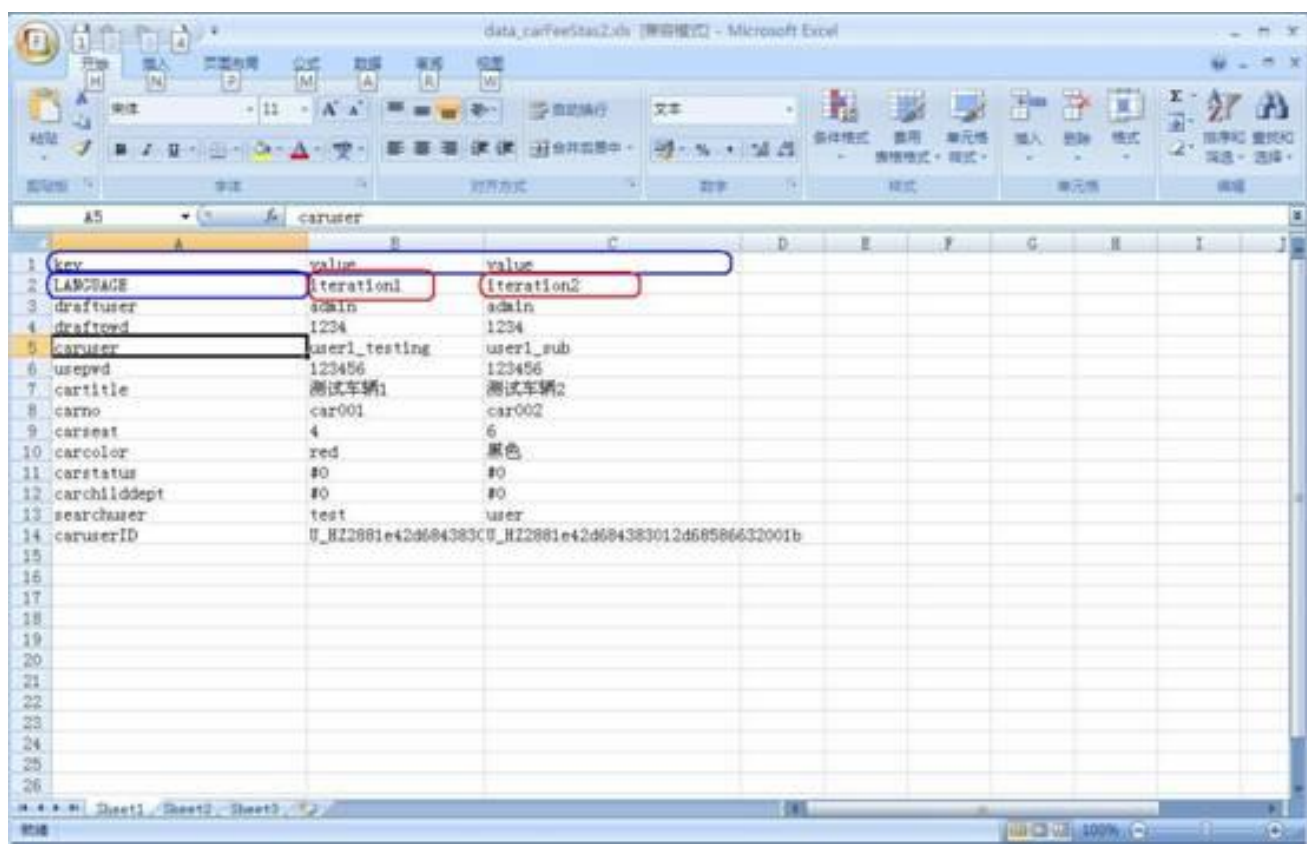




# AC自动化解决方案案例三：验证测试

- 数据循环
- 多版本

# AutomationCenter 数据池-excel



key	value	value
LANGUAGE	iteration1	iteration2
draftuser	admin	admin
draftpwd	1234	1234
caruser	user1_testing	user1_sub
usepwd	123456	123456
cartitle	测试车辆1	测试车辆2
carno	car001	car002
carseat	4	6
carcolor	red	黑色
carstatus	#0	#0
carchilddept	#0	#0
searchuser	test	user
caruserid	U_HZ2881e42d684383CU_HZ2881e42d684383012d68586632001b	

# AutomationCenter 数据池-xml

```
<?xml version="1.0" encoding="UTF-8" ?>
<DataPool>
<Data indicator="zh_CN">
  <lang>zh_CN</lang>
  <subject>NLS_zh_CN_简体中文网页</subject>
  <to>sdada@sohu.com</to>
  <body>Body:Test 包括焦点新闻报道, 消费热点, 娱乐, 无线服务, 分类目录
搜索。</body>
  <attach>NLS_zh_CN_简体中文网页.txt</attach>
</Data>
<Data indicator="zh_TW">
  <lang>zh_TW</lang>
  <subject>NLS_zh_TW_繁體中文中國台灣</subject>
  <to>sdada@sohu.com</to>
  <body>Body:Test 繁體中文中國台灣測試國際化測試報業消費娛樂無限服務
</body>
  <attach>NLS_zh_TW_繁體中文中國台灣.txt</attach>
</Data>
</DataPool>
```

# AutomationCenter 多数据循环功能

```
Function login
  Dialog(dlgLoginDesc).WinEdit(To).set getDataFromACChannel("To")
  Dialog(dlgLoginDesc).WinEdit(Subject).set getDataFromACChannel("Subject")
  Dialog(dlgLoginDesc).WinButton(send).Click
  username = "sheng.liu"
  writeIntoACChannel "Subject",subject
End Function
```

```
<QTP name="MultipleIterationTesting" description="demo" iteration="ALL">
  <TestData type="iteration" location = "testdata\data.xls"/>
</QTP>
```

```
<QTP name="MultipleIterationTesting" description="demo" iteration="zh_CN,zh_TW">
  <TestData type="iteration" location = "testdata\data.xls"/>
</QTP>
```

# AC自动化解决方案案例三：验证测试

## Summary

Suite:	Test C	
	Pass	Fail
AutomationCenterDemoSuite	8 [100%]	0 [0%]

## Suite: AutomationCenterDemoSuite

Component	Test Case	
	Pass	Fail
<u>Init Env</u>	1 [100%]	0 [0%]
<u>Ant StartSelenium</u>	1 [100%]	0 [0%]
<u>linux ff ff2.0.0.20</u>	1 [100%]	0 [0%]
<u>linux ff ff3.6.12</u>	1 [100%]	0 [0%]
<u>linux ff 3.0.5</u>	1 [100%]	0 [0%]
<u>linux ff ff2.0.0.3</u>	1 [100%]	0 [0%]
<u>linux ff ff2.0.0.2</u>	1 [100%]	0 [0%]
<u>linux ff ff3.5.2</u>	1 [100%]	0 [0%]

# AC自动化解决方案案例四：视频会议测试自动化

## 基本功能

- 登录
- 开始会议
- 开始演示
- 开始聊天

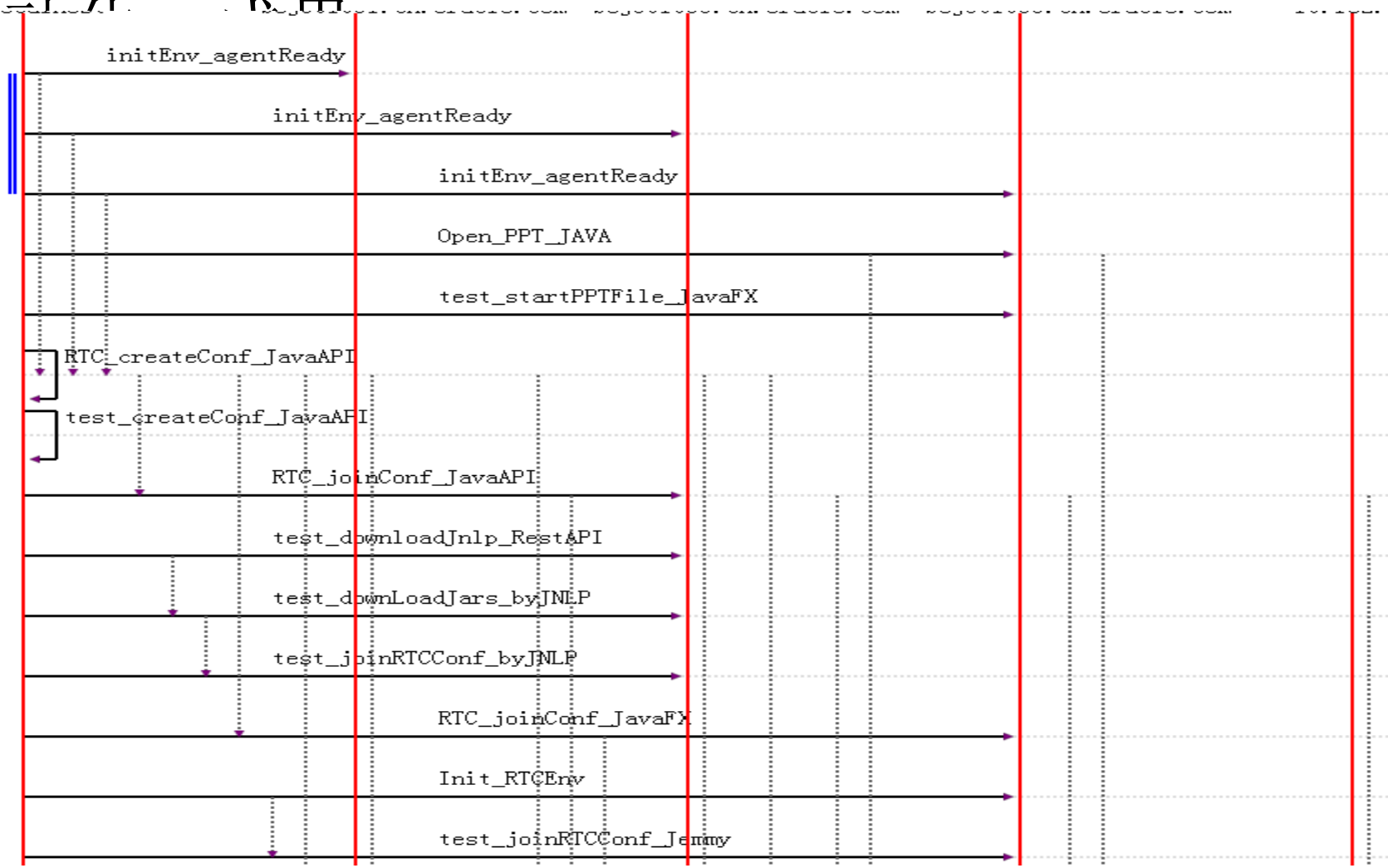
- 登录
- 参加会议
- 观看演示
- 接收聊天

## 资源

- Windows
- Web
- Iphone/Ipad
- API

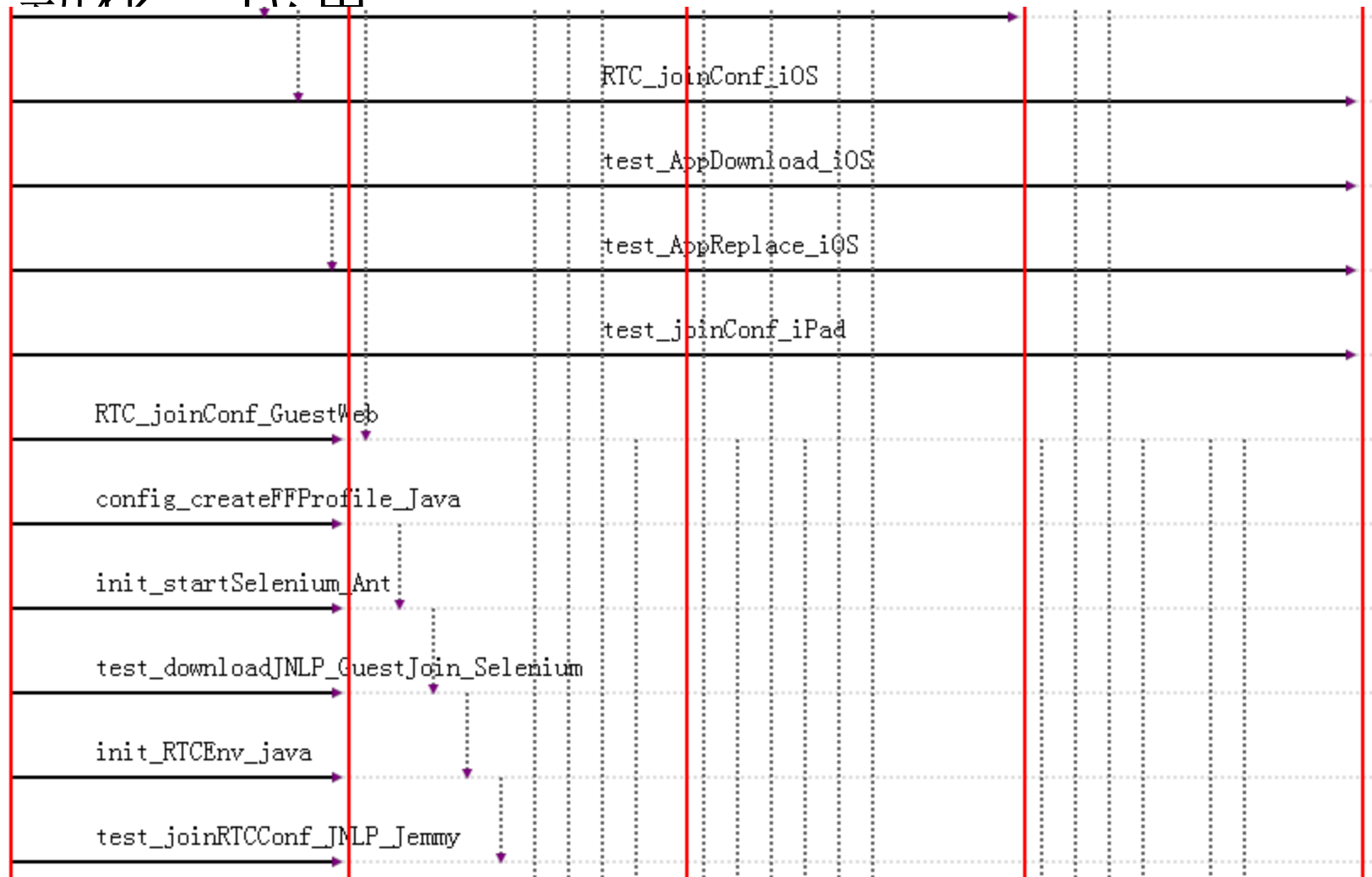
- 客户端 <QTP>
- JavaFX <Jemmy>
- Instrument <iOS>
- Java API <WebService>

# AC自动化解决方案案例四：视频会议测试自



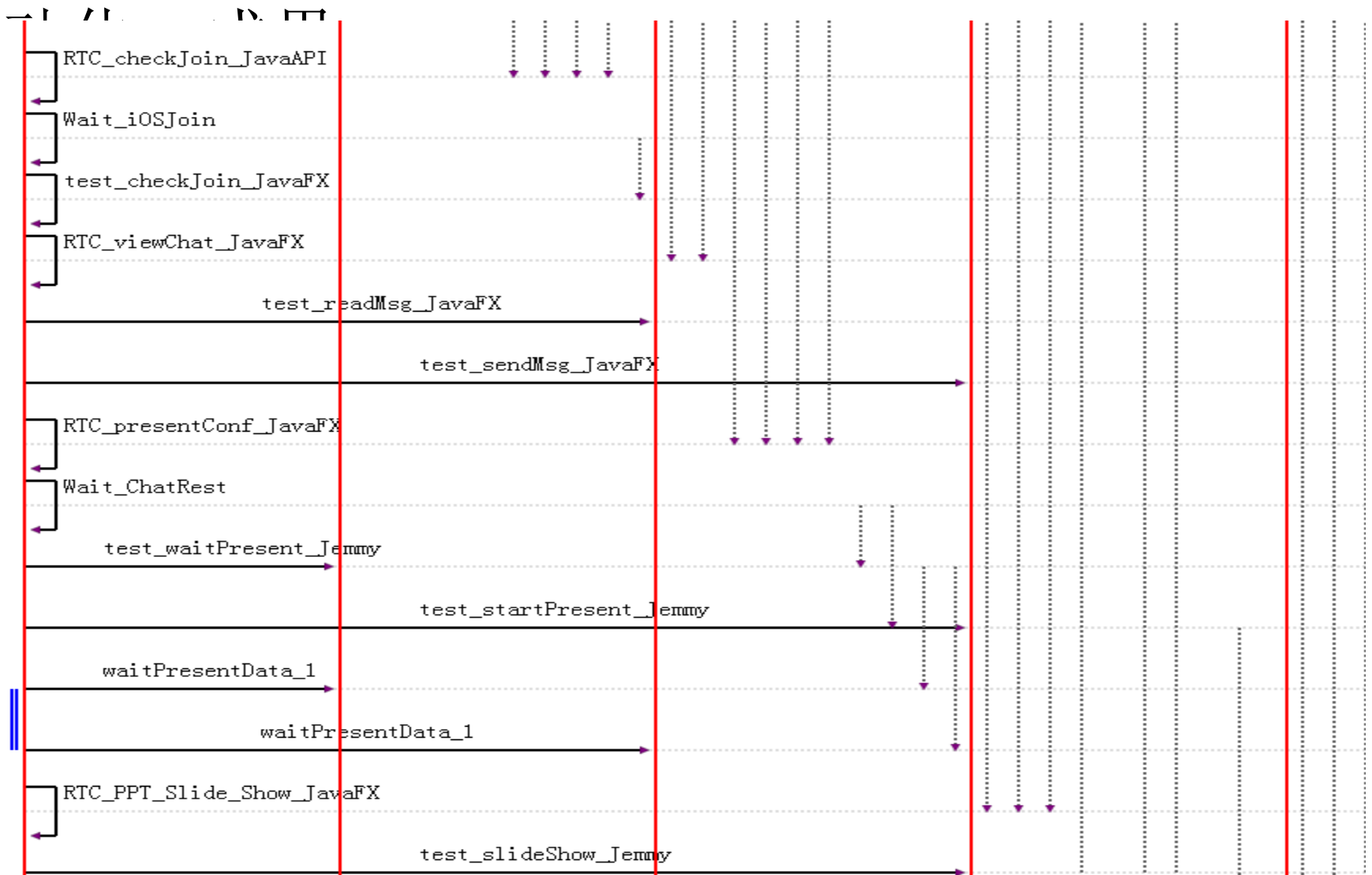
# AC自动化解决方案案例四：视频会议测试自

动化 代甲





# AC自动化解决方案案例四：视频会议测试自



# AC自动化解决方案案例四：视频会议测试自

## Summary

TestJob	Test	
	Pass	Fail
RealLifeSanity	42 [100%]	0 [0%]

### Suite: RealLifeSanity

TestJob	Test	
	Pass	Fail
<a href="#">initEnv_agentReady</a>	1 [100%]	0 [0%]
<a href="#">Open_PPT_JAVA</a>	1 [100%]	0 [0%]
<a href="#">RTC_createConf_JavaAPI</a>	1 [100%]	0 [0%]
<a href="#">RTC_joinConf_JavaAPI</a>	4 [100%]	0 [0%]
<a href="#">RTC_joinConf_JavaFX</a>	3 [100%]	0 [0%]
<a href="#">RTC_joinConf_GuestWeb</a>	5 [100%]	0 [0%]
<a href="#">RTC_checkJoin_JavaAPI</a>	2 [100%]	0 [0%]
<a href="#">RTC_viewChat_JavaFX</a>	2 [100%]	0 [0%]
<a href="#">RTC_presentConf_JavaFX</a>	7 [100%]	0 [0%]
<a href="#">RTC_PPT_Slide_Show_JavaFX</a>	4 [100%]	0 [0%]
<a href="#">RTC_shareControl_JavaFX</a>	3 [100%]	0 [0%]
<a href="#">RTC_stopPresent_JavaFX</a>	1 [100%]	0 [0%]
<a href="#">RTC_questPresent_JavaFX</a>	3 [100%]	0 [0%]
<a href="#">RTC_exitConf_JavaFX</a>	5 [100%]	0 [0%]

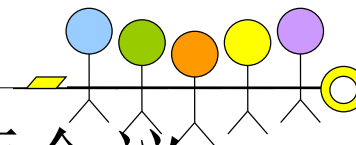
# AC自动化解决方案案例四：视频会议测试自

## Summary

TestJob	Test	
	Pass	Fail
RealLifeSanity	42 [100%]	0 [0%]

### Suite: RealLifeSanity

TestJob	Test	
	Pass	Fail
<a href="#">initEnv_agentReady</a>	1 [100%]	0 [0%]
<a href="#">Open_PPT_JAVA</a>	1 [100%]	0 [0%]
<a href="#">RTC_createConf_JavaAPI</a>	1 [100%]	0 [0%]
<a href="#">RTC_joinConf_JavaAPI</a>	4 [100%]	0 [0%]
<a href="#">RTC_joinConf_JavaFX</a>	3 [100%]	0 [0%]
<a href="#">RTC_joinConf_GuestWeb</a>	5 [100%]	0 [0%]
<a href="#">RTC_checkJoin_JavaAPI</a>	2 [100%]	0 [0%]
<a href="#">RTC_viewChat_JavaFX</a>	2 [100%]	0 [0%]
<a href="#">RTC_presentConf_JavaFX</a>	7 [100%]	0 [0%]
<a href="#">RTC_PPT_Slide_Show_JavaFX</a>	4 [100%]	0 [0%]
<a href="#">RTC_shareControl_JavaFX</a>	3 [100%]	0 [0%]
<a href="#">RTC_stopPresent_JavaFX</a>	1 [100%]	0 [0%]
<a href="#">RTC_questPresent_JavaFX</a>	3 [100%]	0 [0%]
<a href="#">RTC_exitConf_JavaFX</a>	5 [100%]	0 [0%]

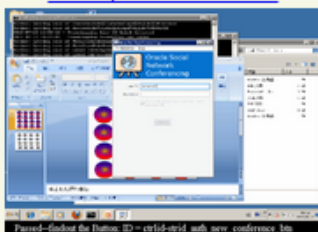



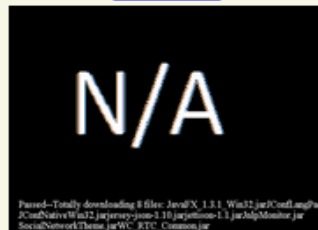



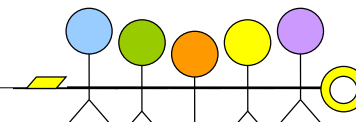
# AC自动化解决方案案例四：视频会议

## Test info

name	elapsed	output
T_TIME_GET_JOIN_JNLP_FILE_BY_REST_API	0 min 2.141sec	Passed--Start Transaction<T_TIME_GET_JOIN_JNLP_FILE_BY_REST_API> at time 1342074129066 Passed--Transaction<T_TIME_GET_JOIN_JNLP_FILE_BY_REST_API> end at time: 1342074131207 Passed--Transaction<T_TIME_GET_JOIN_JNLP_FILE_BY_REST_API> cost time: 2141
T_TIME_DOWNLOAD_JARS	1 min 45.594sec	Passed--Start Transaction<T_TIME_DOWNLOAD_JARS> at time 1342074137113 @host:bej301033 Passed--Transaction<T_TIME_DOWNLOAD_JARS> end at time: 1342074242707 @host:bej301033 Passed--Transaction<T_TIME_DOWNLOAD_JARS> cost time: 105594
T_TIME_OPEN_CONF_VIEW_BY_JNLP	0 min 7.359sec	Passed--Start Transaction<T_TIME_OPEN_CONF_VIEW_BY_JNLP> at time 1342074249973 @host: Passed--Transaction<T_TIME_OPEN_CONF_VIEW_BY_JNLP> end at time: 1342074257332 @host: Passed--Transaction<T_TIME_OPEN_CONF_VIEW_BY_JNLP> cost time: 7359
T_TIME_DOWNLOAD_JARS	0 min 27.749sec	Passed--Start Transaction<T_TIME_DOWNLOAD_JARS> at time 1342074123185 @host:bej301035 Passed--Transaction<T_TIME_DOWNLOAD_JARS> end at time: 1342074150934 @host:bej301035 Passed--Transaction<T_TIME_DOWNLOAD_JARS> cost time: 27749
T_TIME_OPEN_RTC_CONSOLE	0 min 4.795sec	Passed--Start Transaction<T_TIME_OPEN_RTC_CONSOLE> at time 1342074157919 @host:bej301 Passed--Transaction<T_TIME_OPEN_RTC_CONSOLE> end at time: 1342074162714 @host:bej301 Passed--Transaction<T_TIME_OPEN_RTC_CONSOLE> cost time: 4795
T_TIME_SIGN_IN	0 min 0.768sec	Passed--Start Transaction<T_TIME_SIGN_IN> at time 1342074169983 @host:bej301035 Passed--Transaction<T_TIME_SIGN_IN> end at time: 1342074170751 @host:bej301035 Passed--Transaction<T_TIME_SIGN_IN> cost time: 768
T_TIME_SHOW_CONF_LIST	0 min 0.657sec	Passed--Start Transaction<T_TIME_SHOW_CONF_LIST> at time 1342074170754 @host:bej301035 Passed--Transaction<T_TIME_SHOW_CONF_LIST> end at time: 1342074171411 @host:bej301035 Passed--Transaction<T_TIME_SHOW_CONF_LIST> cost time: 657

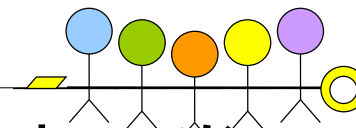
# AC自动化解决方案案例四：视频会议

02:22:14~02:23:14(60~120sec)		<p><a href="#">testSignInAsAttendee_1</a></p>  <p>Passed-Goodout the flatus ID= c4rlid-strld_sah_new_conference.htm</p> <p><a href="#">testJoinConfbyID</a></p>  <p>no info</p>	<p><a href="#">InitRTCEnv</a></p>  <p>Passed-Totally downloading 8 files: JavaFX_1.3.1_Win32.jar;ConfId.ang;h2j;ConfNativeWin32.jar;parasy-json-3.10.jar;json-1.3.jar;helpMonitor.jar;SocialNetworkTheme.jar;WC_RTC_Common.jar</p>	<p><a href="#">testGuestJoin</a></p>  <p>Passed-Test 'testGuestJoin' started</p> <p><a href="#">InitRTCEnv</a></p>  <p>Passed-Totally downloading 8 files: JavaFX_1.3.1_Win32.jar;ConfId.ang;h2j;ConfNativeWin32.jar;parasy-json-3.10.jar;json-1.3.jar;helpMonitor.jar;SocialNetworkTheme.jar;WC_RTC_Common.jar</p>
02:23:14~02:24:14(120~180sec)			<p><a href="#">testJoinConfAsViewerbyJnlp</a></p>  <p>Passed-Test 'testJoinConfAsViewerbyJnlp' started</p>	
02:24:14~02:25:14(180~240sec)				



# Automation Center 自动化测试解决方案

- 如何在AC上开发Job? ? ?



# AutomationCenter QTP Job基本开发

## 脚本

'登录客户端

```
Dialog("Login").WinEdit("Agent Name:").Set "testing"
```

```
Dialog("Login").WinEdit("Password:").Set "mercury"
```

```
Dialog("Login").WinButton("OK").Click
```

'输入机票信息，下订单

```
Window("Flight Reservation").WinComboBox("Fly From:").Select "Frankfurt"
```

```
Window("Flight Reservation").WinComboBox("Fly To:").Select "London"
```

```
Window("Flight Reservation").WinButton("Insert Order").Click
```

```
Window("Flight Reservation").Close
```

## Job描述

```
<QTP name="QTP_BookFlight" description="QTP Script mdoe" depends="Java_Init">
```

```
  <TestData type="xls"
```

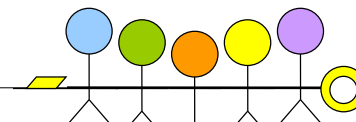
```
location="testscripts\QTP\UILabelData\data_UI_Flight.xls"/>
```

```
  <Lib location="common\lib_app\lib_flightdemo_login.vbs"/>
```

```
  <Lib location="common\lib_app\lib_utility.vbs"/>
```

```
  <Run path="testscripts\QTP\QTP_Flight">
```

```
</QTP>
```



# AutomationCenter QTP Job工厂开发

## 脚本

```
Function login
'调用框架函数ReportRunningInfo, 写日志
ReportRunningInfo "start to run login test case"
Dialog(dlgLoginDesc).WinEdit(editUserDesc).set getDataFromACChannel("user")
Dialog(dlgLoginDesc).WinEdit(editPasswdDesc).set getDataFromACChannel("passwd")
Dialog(dlgLoginDesc).WinButton(btnOKDesc).Click
if(Window(flightWindowDesc).Exist(30)) Then
'调用reportPass, 向AC报告当前案例成功状态
reportPass "has signin successfully"
login = True
Else
'调用reportFail, 向AC报告当前案例失败状态
reportFail "failed to signin in"
login = False
End If
username = "sheng.liu"
writeIntoACChannel "displayname",username
End Function
```

## Job描述

```
<QTP name="QTP_DesktopClientTest_AC" description="demo" factoryMode="true" depends=" " iteration="">
  <Lib location="testscripts\DesktopClient\testcase.vbs"/>
  <Testdata type="xml" location="data\data_global_shining.xls"/>
  <Testdata type="iteration" location="data\testdata.xls"/>
  <Case name="flightDemo" description="to test flight system" >
    <Test name="login" description="login flight"/>
  </Case>
</TestJob>
</TestJob>
```



# AutomationCenter QTP Job API

## [ReportPass \(strDetails\)](#)

Report pass message to framework, at same time:

1. QTP test status will be updated
2. Msg will realtimely appear in the console
3. Snapshot will be caught, finally presented in report.

## [ReportWarning \(strDetails\)](#)

Report warning message to framework, at same time:

1. QTP test status will be updated;
2. Msg will realtimely appear in the console;
3. Snapshot will be caught, finally presented in report.

## [ReportFail \(strDetails\)](#)

Report fail message to framework, at same time:

1. QTP test status will be updated;
2. Msg will realtimely appear in the console;
3. Snapshot will be caught, finally presented in report.

## [getDataFromACChannel\(strKey\)](#)

Get parameter from framework global Data channel, which maybe outputed by previous job, or loaded in <TestData>

## [writeIntoACChannel\(strKey,value\)](#)

writeIntoACChannel(strKey,value)

## [getDataArrFromACChannel\(strKey\)](#)

Get parameter array from framework global Data channel, which maybe outputed by previous job, this API is only applicable in job iteration model.

# AutomationCenter QTP Report

## Automation Center Test Report

Product Version:OCSCORE\_2.0\_LINUX.X64\_101218.1210  
 Date: 11-06-21 15:02:01  
 Test Account: yoyzhou  
 OS: Windows XP, 5.1  
 Test Language:  
 Elapsed Time: 2 min 36 sec

### Summary

Suite:	Test Case			Test		
	Pass	Fail	CNR	Pass	Fail	
OBEO	3 [43%]	1 [14%]	3 [43%]	3 [43%]	1 [14%]	

Suite: OBEO

Component	Test Case			Test		
	Pass	Fail	CNR	Pass	Fail	
<a href="#">OBEO Install QTP</a>	3 [75%]	1 [25%]	0 [0%]	3 [75%]	1 [25%]	
<a href="#">OBEO Config QTP</a>	0 [0%]	0 [0%]	1 [100%]	0 [0%]	0 [0%]	
<a href="#">Intermitted Message QTP</a>	0 [0%]	0 [0%]	1 [100%]	0 [0%]	0 [0%]	

# AutomationCenter QTP Report - 细分

## OBEO\_Install\_QTP--AC Automation Report

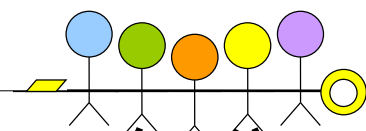
Product Version: OCScore\_2.0\_LINUX.X64\_101218.1210  
 Test Start Time: 11-06-21 15:02:06  
 Test Account: yoyzhou  
 OS: Windows XP, 5.1  
 Test Language:  
 Elapsed Time: 2 min 36 sec

AC Host Info:

Name	Value
AC Hostname	10
Windows User	yoyzhou
Test Log Path	Q:\results\1288350459\OBEO\OBEO_Install_QTP\log.txt
ScreenShot Path	Q:\results\1288350459\OBEO\OBEO_Install_QTP\screenshot
Windows passwd	cdctest
Framework Log Path	Q:\framework.log
AC Host IP	10.182.72.136

## TEST Report

TestCases	Tests	
	Pass	Fail
<a href="#">obio_downloadOBIOInstallerFromHttpServer</a>	1 [100%]	0 [0%]
<a href="#">obio_openRemoteInstallerWithoutConnectionParameters</a>	1 [100%]	0 [0%]
<a href="#">obio_connectDMSWithValidCredentials</a>	1 [100%]	0 [0%]
<a href="#">obio_downloadOBIOInstallationProgramByRemoteInstaller</a>	0 [0%]	1 [100%]



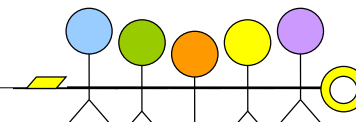
# AutomationCenter QTP Report - 细分2

## Test Case: obio\_downloadOBIOInstallationProgramByRemoteInstaller

Case Result	Failed
Component	OBEO_Install_QTP
Test Focus	obio_downloadOBIOInstallationProgramByRemoteInstaller
Test Description	obio_downloadOBIOInstallationProgramByRemoteInstaller
Elapsed Time:	34 Sec
Test	<b>-DownloadOBIOInstallationProgramByRemoteInstaller - Failed</b>
	<b>Time</b> 34 Sec
	<b>Desc</b> DownloadOBIOInstallationProgramByRemoteInstaller PASSED:guhui: (Software Update))(Oracle Beehive Extensions for Outlook)
	<b>Output</b>
	<b>Fail</b> FAILED:Failed to download OBIO application binaries from DMS by Remote Installer and install OBIO because [] FAILED:Test.DownloadOBIOInstallationProgramByRemoteInstaller.All attempts for Recovery failed.
	<b>Log</b> <a href="#">Runtime Log</a>
<b>Screen</b> <a href="#">Screenshot</a>	

# AutomationCenter QTP Report - 细分3

		<p>Passed-get ServerLabel=WRTC_MAIN_LINUX_X64_120612.0210</p>		
<p>02:22:14~02:23:14(60~120sec)</p>		<p><a href="#">testSignInAsAttendee_1</a></p>  <p>Passed-sign in conferencing window ezatir</p> <p><a href="#">testJoinConfbyID</a></p>  <p>Passed-join conferences by id and key, button [Join] detected.</p>	<p><a href="#">InitRTCEnv</a></p>  <p>Passed-get ServerLabel=WRTC_MAIN_LINUX_X64_120612.0210</p>	<p><a href="#">testGuestJoin</a></p>  <p><a href="#">InitRTCEnv</a></p>  <p>Passed-get ServerLabel=WRTC_MAIN_LINUX_X64_120612.0210</p>
<p>02:23:14~02:24:14(120~180sec)</p>			<p><a href="#">testJoinConfAsViewerbyJnlp</a></p>	



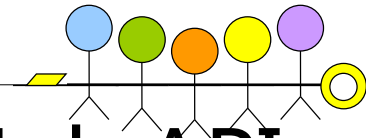
# AutomationCenter Selenium Job 开发

## 脚本

```
package com.example.tests;
import com.thoughtworks.selenium.*;
import java.util.regex.Pattern;
public class selJava extends SeleneseTestCase {
    public void setUp() throws Exception {
        setUp("http://change-this-to-the-site-you-are-testing/", "chrome");
    }
    public void testSelJava() throws Exception {
        selenium.open("/calc.htm");
        selenium.click("//input[@name='alex' and @value='1']");
        selenium.click("//input[@name='alex' and @value='+']");
        selenium.click("//input[@name='alex' and @value='2']");
        selenium.click("//input[@name='alex' and @value='=']");
        verifyEquals("3", selenium.getValue("display"));
    }
}
```

## Job描述

```
<Selenium name="selenium_demo" description="Test calc" depends="" >
  <TestData type="xml" location="selenium\config.xml"/>
  <JobInput name="Number"/>
  <ClassPath location="selenium\selenium-java-client-driver_self_extended.jar"/>
  <ClassPath location="selenium\my.jar"/>
  <SelTestCase path="selJava">
    <SelTest name="testSelJava"/>
  </SelTestCase>
</Selenium>
```



# AutomationCenter Selenium Job API

## [pass\(String msg\)](#)

Report pass message to framework, at same time:

1. Selenium test status will be updated;
2. Msg will realtimely appear in the console;
3. Snapshot will be caught, finally presented in report.

## [fail\(String msg\)](#)

Report fail message to framework, at same time:

1. Selenium test status will be updated;
2. Msg will realtimely appear in the console;
3. Snapshot will be caught, finally presented in report.

## [getDataProperty\(String paraname\)](#)

Get data parameter from job data appenders, which was loaded by appender  
<TestData>

## [getConfigProperty\(String paraname\)](#)

Get config value from the config channel of Automation Center.

## [getEnvProperty\(String paraname\)](#)

Get env value from the env channel of Automation Center.

## [getInputValue\(String paraname\)](#)

Get input value from the data channel of Automation Center.

## [getInputValueArr\(strkey\)](#)

get parameter value array by key from AC global data channel

## [setOutputValue\(String paraname, String paravalue\)](#)

Notify Automation Center of a testJob output.

## [writelIntoACChannel\(strKey,value\)](#)

Same as setOutputValue(strKey,value)

# AutomationCenter java Job API

## [pass\(String msg\)](#)

Report pass message to framework, at same time:

1. Selenium test status will be updated;
2. Msg will realtimely appear in the console;
3. Snapshot will be caught, finally presented in report.

## [fail\(String msg\)](#)

Report fail message to framework, at same time:

1. Selenium test status will be updated;
2. Msg will realtimely appear in the console;
3. Snapshot will be caught, finally presented in report.

## [getDataProperty\(String paraname\)](#)

Get data parameter from job data appenders, which was loaded by appender  
<TestData>

## [getConfigProperty\(String paraname\)](#)

Get config value from the config channel of Automation Center.

## [getEnvProperty\(String paraname\)](#)

Get env value from the env channel of Automation Center.

## [getInputValue\(String paraname\)](#)

Get input value from the data channel of Automation Center.

## [getInputValueArr\(strkey\)](#)

get parameter value array by key from AC global data channel

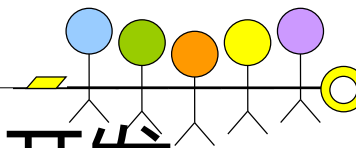
## [setOutputValue\(String paraname, String paravalue\)](#)

Notify Automation Center of a testJob output.

## [writeIntoACChannel\(strKey,value\)](#)

Same as setOutputValue(strKey,value)





# AutomationCenter Script Job 开发

脚本

Any script

## Job描述

```
<Script name="vbstesting" description="vbs testing" depends="Init_Env" >  
  <Run path="C:\temp.vbs"></Run>  
</Script>
```

# AC自动化解决方案案例五：持续集成

· 讨论

# 交流时间



讲座 6月14日 重构，我的遗留系统改善之路

QQ群 155988217（自动化测试）

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