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PCM系列之三

没有执行力就没有竞争力

王洪超

开发合作部

微软(中国)有限公司

王晴

开发合作部

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PCM回顾

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实现阶段

微软的秘密武器

- 三大流程
 - 源代码控制
 - 每日构造
 - Bug管理
- 七大服务器
 - 源代码服务器
 - Bug数据库
 - 构造服务器
 - 发布服务器
 - 电子邮件服务器
 - 团队协作平台
 - 测试用例管理工具

为什么需要源代码控制

- 缺少源代码控制工具而引起的问题
 - 最新版本的源代码在谁的机器上?
 - 多人修改一个文件时, 有些人的修改被抹掉了
 - 昨天的修改引发了新缺陷, 但不知道做了哪些修改
 - 上周五的代码肯定能运行, 但没法退回去了
 - 一不小心把有用的**GetXYZ()**函数删了并存盘了!
 - 目前正在写**3.0**的代码了, 突然要为**1.0**版本发布一个**1.0a**
 - **B**客户需要一个定制的产品, 而且要随通用版不断更新
 - 昨天我修改了一个文件, 但我想不起来为什么要修改了
 - 今天系统出错了, 昨天是哪个该死的改了**Abc.Cpp**文件?
 - 上个月发布给**A**用户的试用版是用那个版本的源码编译的?

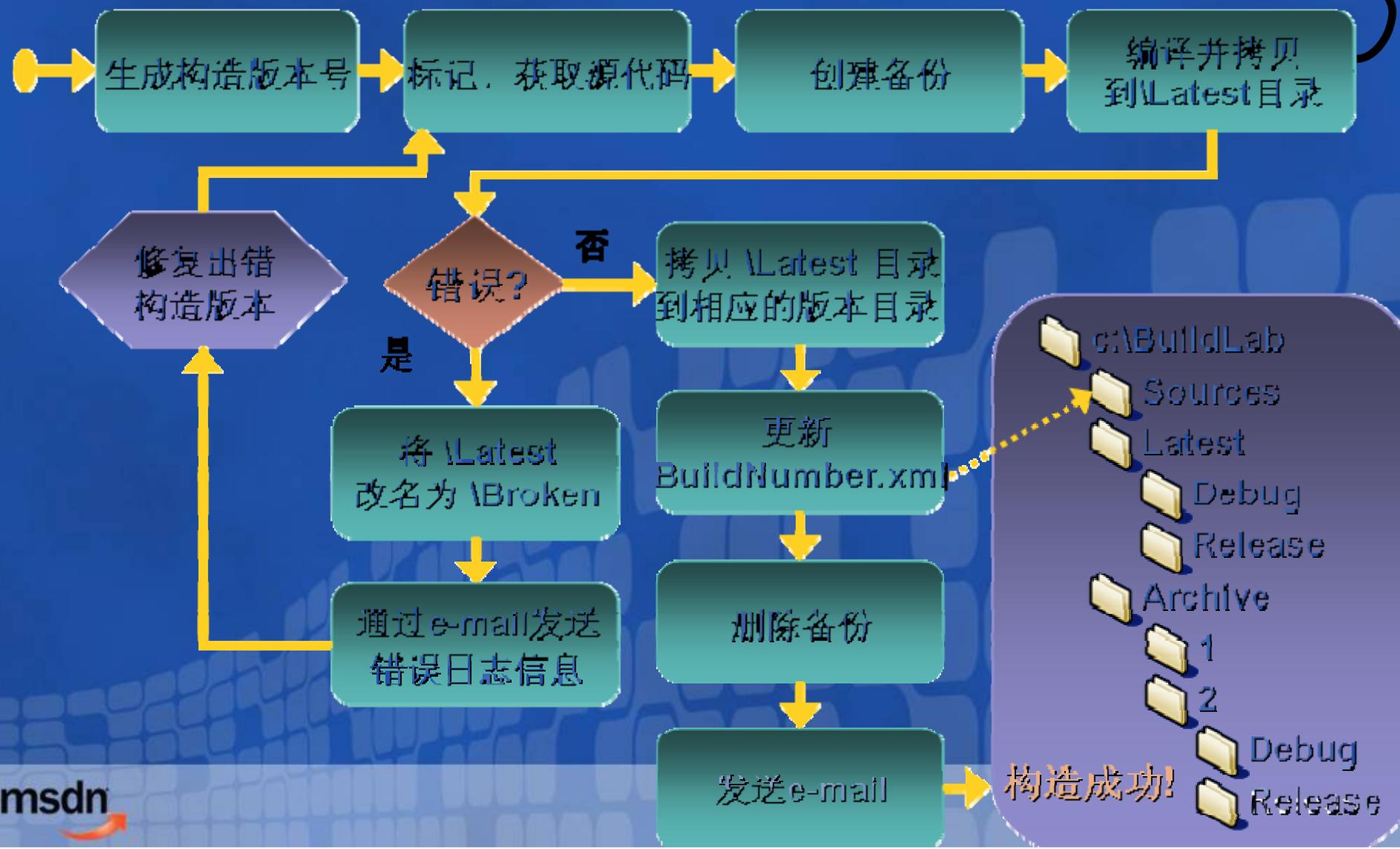
源代码控制的基本操作

- 最常用操作:
 - Add File(s)
 - Check-In
 - Check-Out
 - Get Latest Version
- 其他
 - Roll-Back
 - Show History
 - Compare
 - Label

微软团队开发环境之每日构造

- 每日构造解决的问题
 - 客户突然访问/领导临时察看工作
 - 产品偏离客户的期望
 - 项目经理/成员不了解整体进度
 - 测试人员无法编译源代码
 - 模块/子系统集成失败
 - 错误没有及时发现
- 每日构造的意义
 - 统一的视图
 - 展示最新进展
 - 测试的基础

每日构造步骤



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每日构造步骤

源代码服务器



2260



构造服务器



BVT测试服务器



发布服务器



Rainbow Team Build Schedule *June 04*

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
May 31	June 1	2	3	4	5	6
	Build 2241	Build 2242	Build 2243	Build 2244 Build 2244.1	Build 2245	
7	8	9	10	11	12	13
	Build 2246	Build 2247	Build 2248	Build 2249	Build 2250	
14	15	16	17	18	19	20
	Build 2251	Build 2252	Build 2253	Build 2254	Build 2255	
21	22	23	24	25	26	27
	Build 2256	Build 2257	Build 2258	Build 2259	Build 2260	
28	29	30	July 1	2	3	4
	Build 2261				手工Build	

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每日构造与BVT测试

- BVT测试是冒烟测试的一种
- 一般在Build生成后进行的自动测试

微软团队开发环境之 Bug 管理

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- 对每一个Bug进行跟踪, 避免遗漏
- 对产品质量的进展进行有效的跟踪
- 量化产品的质量 and 开发团队成员的绩效, 便于有效的管理

查看Bug信息

Bug管理工具主界面

Product Studio - [New Query - Product Studio Bugs (Bugs) - 8 records *]

Products: Product Studio Bugs

Features: Product Studio Bugs, Active Directory, BRIE, Bug Processing, Data Tier, Deployment, Documentation, Feedback, Help, Linking, Metadata Cache, MidTier, Obj, Pst, Sec, Set, UI, Unres, Rad, Test Depot, Upgrades

And/Or	Field name	Operator	Value
And	Product	Equals	Product Studio Bugs
And	Path	Under	UI\Admin

ID | Title

3	need a way to make a Shared People list non-dynamic - especially for the Assigned to, Resolved by, and Closed By fields
61	Build field will not support our versioning scheme
236	Need method to edit resolution fields
250	Cannot use AdminUI to configure "Value Required" field using "Depends On" functionality
257	Need Admin edit functions for the Resolution Field

Product Studio - [Bug 164 - (20 of 65) Product Studio Bugs]

Title: Description and Repro fields ignore font settings

Path: UI\General

Status: Closed

Assigned to: Closed

Issue type: Code Defect

Severity: 2

Priority:

Date: 5/23/2003

By: Unknown

Visible to:

Opened Date: 12/12/2002

By: Unknown

Built: 1.21.3600.6

Source:

Source ID:

How found:

Closed Date: 5/23/2003

By: Unknown

Environment:

Environment:

Details: [Source Depot] [Favorites] [Duplicates] [Filter] [Links] [Daily] [History]

Description:

- 12/12/2002 7:48 AM **Opened by Unknown (Bug 164 - Product Studio Bugs)**
- 1/10/2003 2:39 AM **Edited by amys**
moved to PS 2.0 DB for investigation. Thanks
- 5/17/2003 12:29 AM **Resolved as By Design by steveps**
RichEdit removes italic internally. I think the reason is that RichEdit can't calculate layout properly with italic base font.
Bold attribute is used to highlight tags, so it is removed from conversation explicitly by application to make visual difference between tag and description.
- 5/20/2003 1:26 AM **Activated by Unknown**
If there's a style you can't use, then remove it from the list in the dialog. Showing "italic" as an option that can never work is bad UI.

Bold seems to work in the "Repro Steps" in 1.20.3600.6 which is different than 1.21.3600.6.

But again, if you're resending Bold for your own use, don't allow it in TaskOptionsDisplay's font settings.

Repro Steps:

Open a bug with lots text in Description and Repro Steps.
TaskOptionsDisplay
Change the font for "Description and Repro" to have Bold or Italic

Result: No change.
Expect Bold or Italic to appear.

Note: If you increase the font size and make it bold, only the increased font size gets applied.

Note: The preview in the TaskOptionsDisplay tab show the font correct.

新登记一个Bug

进行Bug查询

Product Studio - [New Bug - Exchange]

Product Studio - [New Query - Exchange (Bugs) - 6 records *]

Products: Exchange

Features: Exchange, ADMIN, AGENTS, ARSTREAM, ASAP, AUTHORIZING TOOL, BLADE, BOMFIRE, BUILD, CAD5, CANGFENER, CDHC, CDO, CHAT, CLIENT ACCESS, CLUSTER, CONTENT INDEXIN, CXP, DBSCHEMA, DEPLOYMENT, DIGITAL SHS, DNS EXTENSIONS, DNS X 500 DIRECT, DGFODD, OS ACCESS API, OSSCHEMA, SVA, EDK, EDKLIBS, EMBEDDED EXCHA, EPDGY, EVENT SERVER, EXCHANGE

And/Or	Field name	Operator	Value
And	Product	Equals	Exchange
And	Opened Date	Greater Than	1/1/2002
And	Opened By	Equals	[Me]

ID | Title

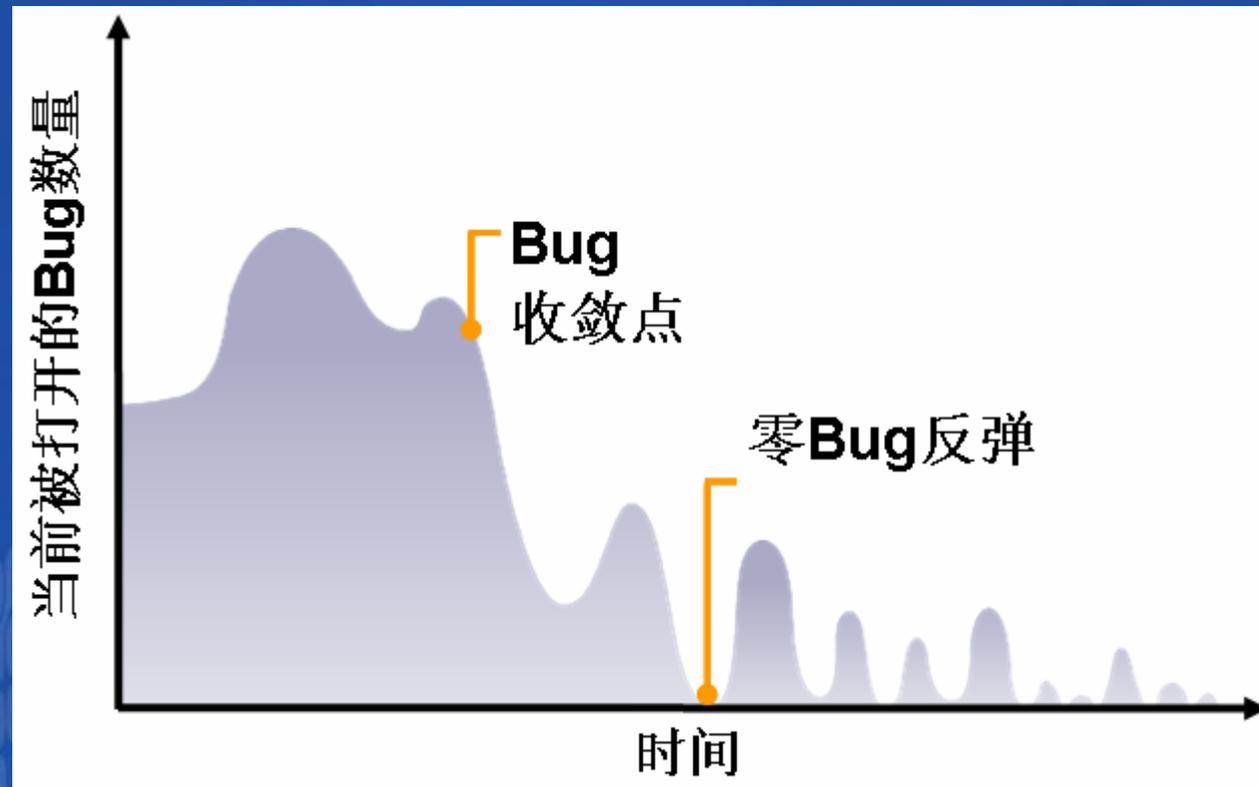
20834	Open Build
20836	Open Build
20830	Open Date
208290	OS/Regression
208373	Parent Bug ID
208676	Parent Bug Product
214228	Parent Changed Date
	Parent Resolution
	Parent Status
	ParentLinkCount
	Path
	Pending Date
	Person Name
	PMNote
	Priority
	Product
	ProductList
	QFE_Exc_Date
	QFE_Rel_Date
	QFE Status
	Regression
	ReproLinkCount
	ReproNote
	Repro Steps
	Resolution

Messages from specific connector in EXA not work between SRS and ESS
In error 0400070005
This access unless explicitly establishing trust between account domain and our domain on and Delete option on the tool bar
Good in multistep conference over 512Kbps WAN

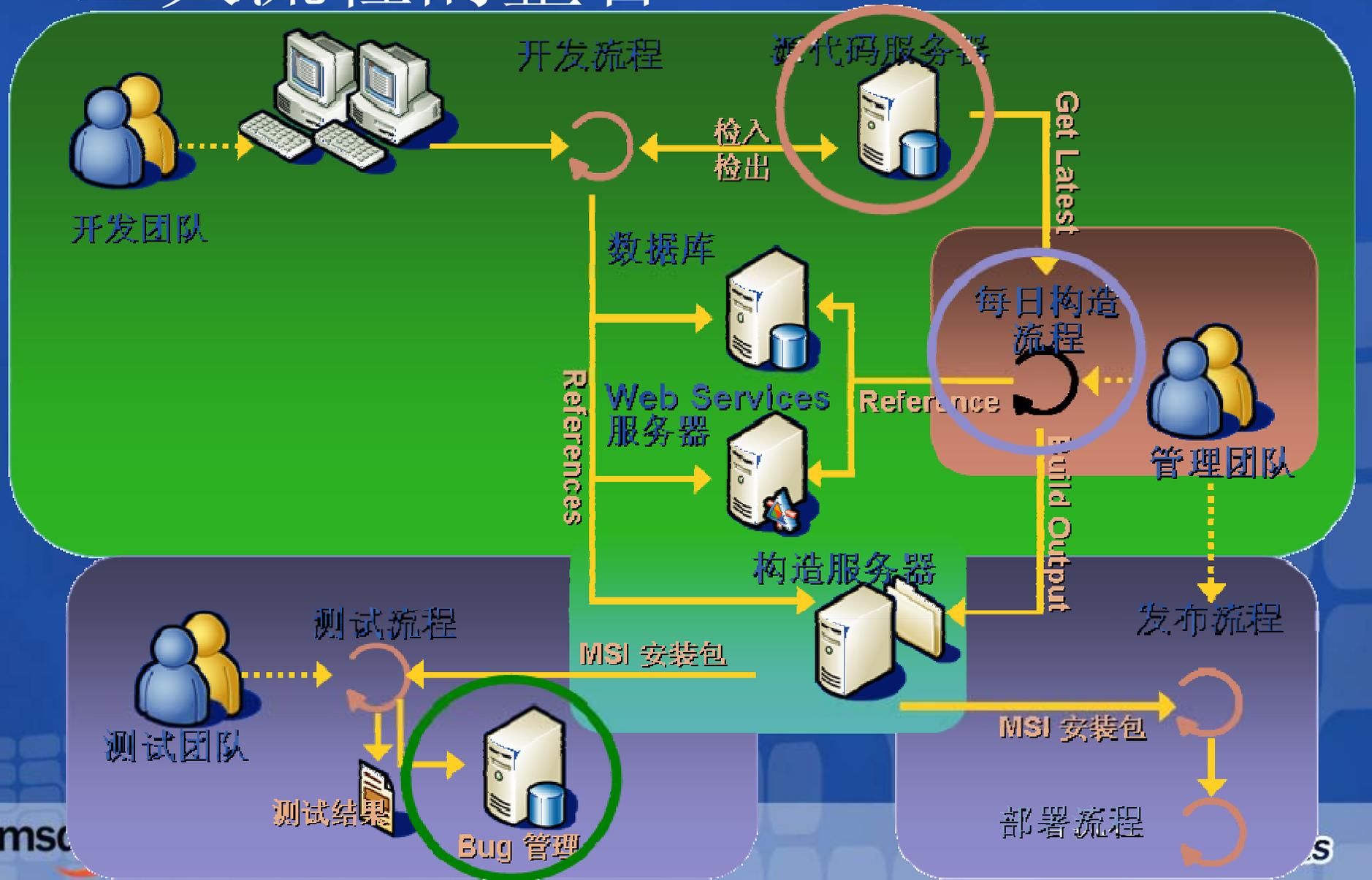
零Bug反弹： 产品发布指日可待

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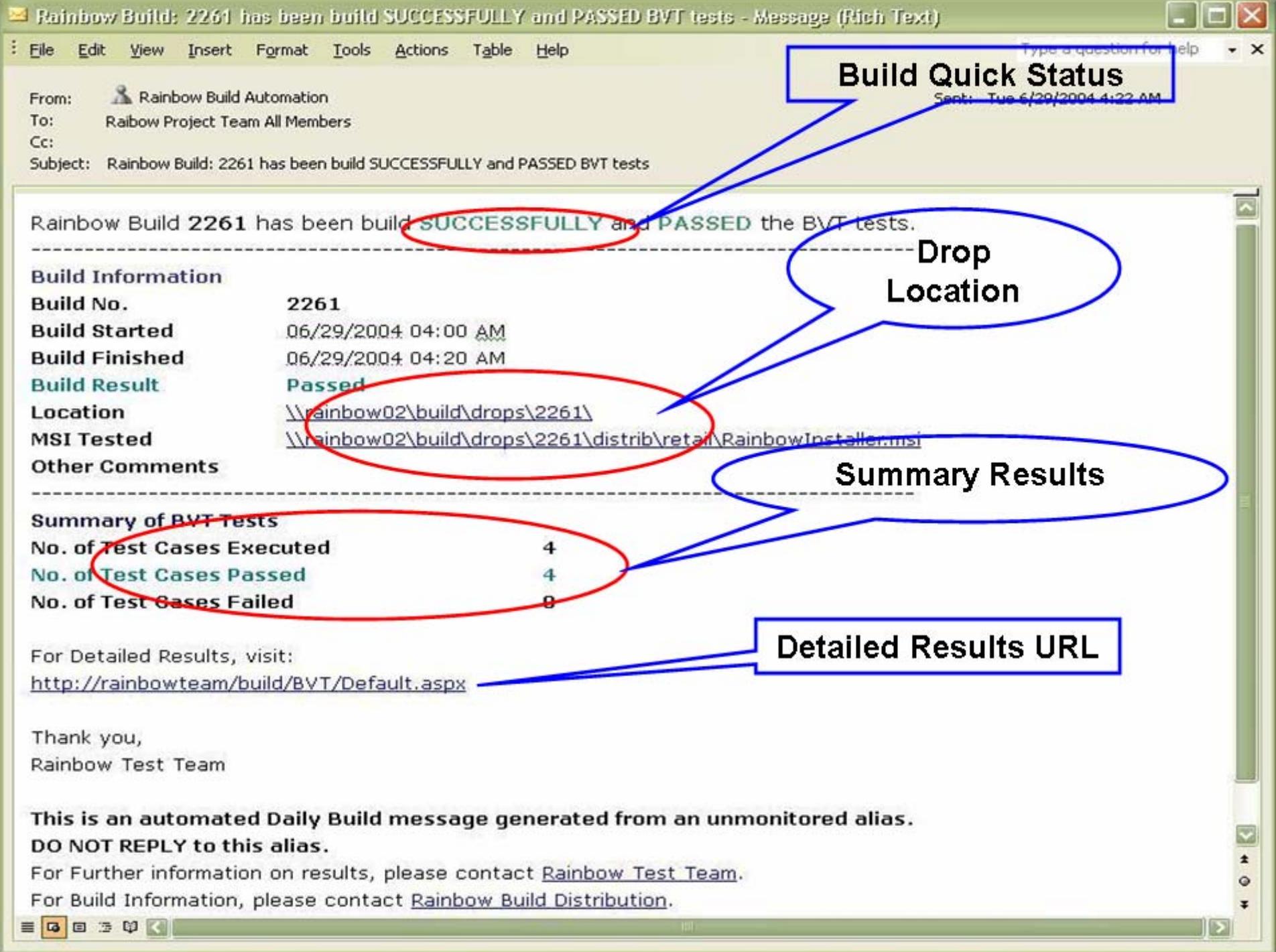


三大流程的整合



开发人员的一天从哪里开始?

- 答案：开发人员的一天从Daily Build开始
- 开发人员上班的第一件事儿就是查看Daily Build的结果，担心由于自己昨天的代码Check-in，造成Build Broken



Rainbow Build: 2261 has been build SUCCESSFULLY and PASSED BVT tests - Message (Rich Text)

File Edit View Insert Format Tools Actions Table Help

From: Rainbow Build Automation
To: Raibow Project Team All Members
Cc:
Subject: Rainbow Build: 2261 has been build SUCCESSFULLY and PASSED BVT tests

Build Quick Status

Sent: Tue 6/29/2004 4:22 AM

Rainbow Build 2261 has been build SUCCESSFULLY and PASSED the BVT tests.

Drop Location

Build Information

Build No. 2261
Build Started 06/29/2004 04:00 AM
Build Finished 06/29/2004 04:20 AM
Build Result Passed
Location \\rainbow02\build\drops\2261\
MSI Tested \\rainbow02\build\drops\2261\distrib\retail\RainbowInstaller.msi
Other Comments

Summary Results

Summary of BVT Tests

No. of Test Cases Executed 4
No. of Test Cases Passed 4
No. of Test Cases Failed 0

Detailed Results URL

For Detailed Results, visit:
<http://rainbowteam/build/BVT/Default.aspx>

Thank you,
Rainbow Test Team

This is an automated Daily Build message generated from an unmonitored alias.

DO NOT REPLY to this alias.

For Further information on results, please contact [Rainbow Test Team](#).

For Build Information, please contact [Rainbow Build Distribution](#).

经历对Build的提心吊胆 之后，第一件事做什么？

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- 答案：打开Bug管理工具，查看指定给自己的Bug，解决高优先度的Bug。因为质量重于新功能

Product Studio - [New Query - Product Studio Bugs (Bugs) - 8 records *]

File Edit View Query Bug Tools Window Help

Products: Rainbow Bugs Bugs Contacts Test Cases Test Results

Features

- Rainbow
 - Active Directory
 - BRIE
 - Bug Processing
 - Data Tier
 - Deployment
 - Documentation
 - Feedback
 - Help
 - Linking
 - MetaData Cache
 - Mid-Tier
 - Object Model
 - Performance
 - Security
 - Setup
 - UI

Bugs

And/Or	Field name	Operator	Value
	Product	Equals	Rainbow
And	Assigned To	Equals	Steven

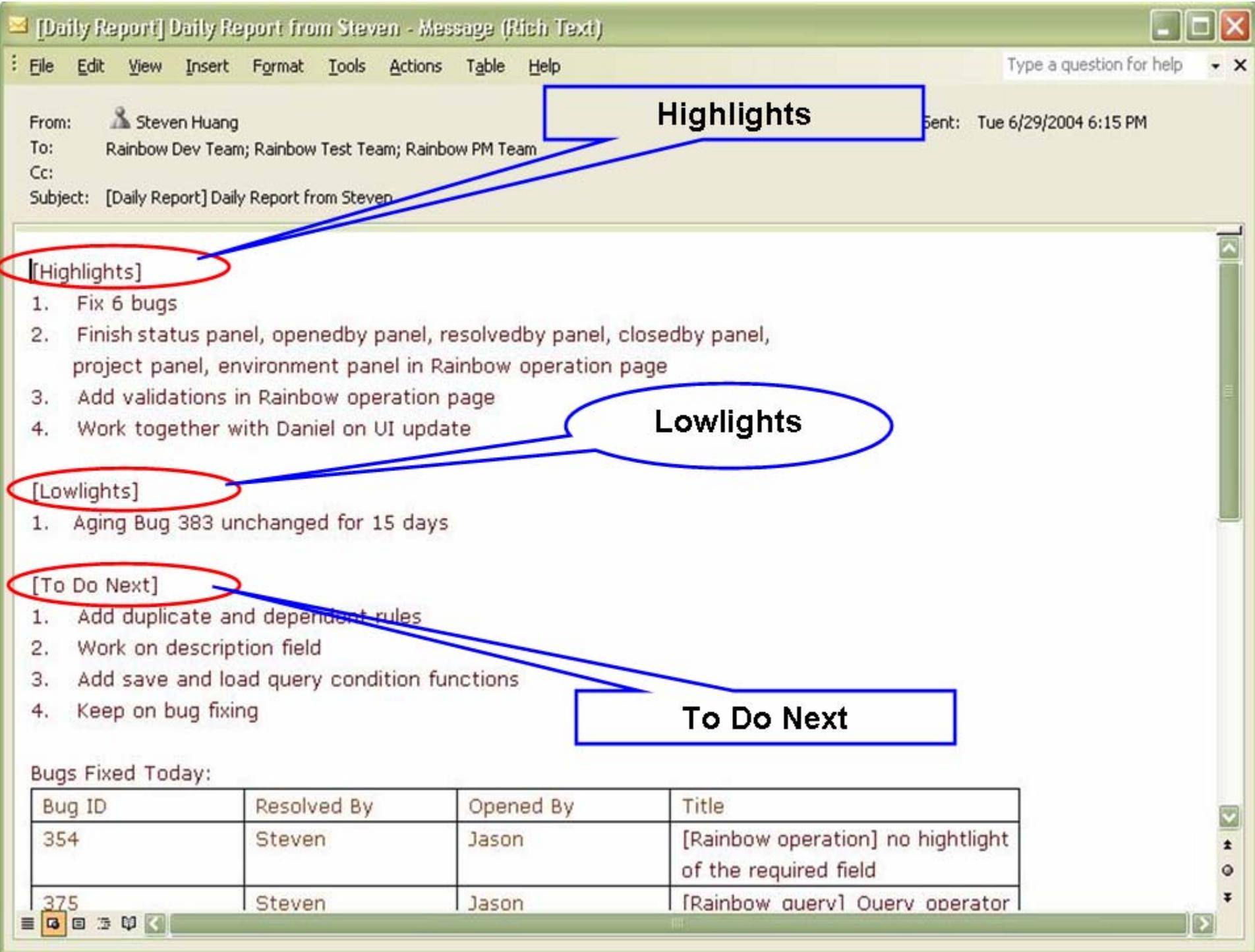
ID	Title
3	need a way to make a Shared People list non-dynamic -- especially for the Assigned to, Resolved by, and Closed By fields
81	Build field will not support our versioning scheme
236	Need method to edit resolution fields
250	Cannot use AdminUI to configure "Value Required" field using "Depends On" functionality.
297	Need Admin edit functions for the Resolution Field
298	Need to be able to enter multiple field values
351	Admin ui: Not-intuitive as to how to enable / disable or when constraints will be enabled / disabled
383	support migration or paging scenario by relaxing field validation

查看指派给自己的Bug

Press F1 for Help.

接下来, 开发人员会...

- 从源代码管理工具中Check out代码
- 修改代码 (解决Bug或实现新功能)
- 取得源代码管理工具中最新变化, 在本机Build和单元测试
- 请开发组同事作Code Review
- Check in代码
- 在Bug管理工具中修改Bug的状态
- 开发人员以一封Daily Report结束一天的工作



[Daily Report] Daily Report from Steven - Message (Rich Text)

File Edit View Insert Format Tools Actions Table Help

Type a question for help

From: Steven Huang
To: Rainbow Dev Team; Rainbow Test Team; Rainbow PM Team
Cc:
Subject: [Daily Report] Daily Report from Steven

Sent: Tue 6/29/2004 6:15 PM

Highlights

[Highlights]

- 1. Fix 6 bugs
- 2. Finish status panel, openedby panel, resolvedby panel, closedby panel, project panel, environment panel in Rainbow operation page
- 3. Add validations in Rainbow operation page
- 4. Work together with Daniel on UI update

Lowlights

[Lowlights]

- 1. Aging Bug 383 unchanged for 15 days

[To Do Next]

- 1. Add duplicate and dependent rules
- 2. Work on description field
- 3. Add save and load query condition functions
- 4. Keep on bug fixing

To Do Next

Bugs Fixed Today:

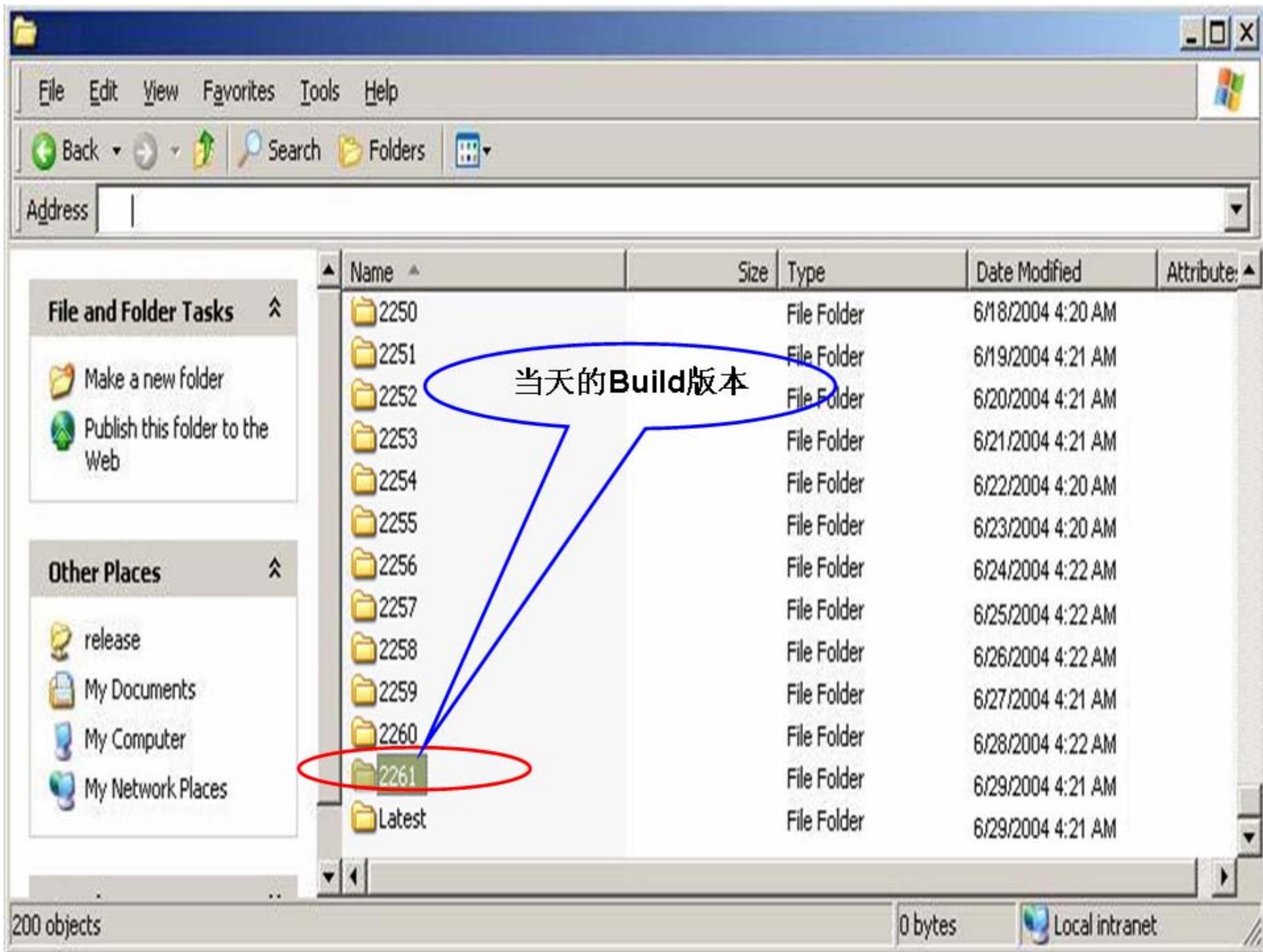
Bug ID	Resolved By	Opened By	Title
354	Steven	Jason	[Rainbow operation] no highlight of the required field
375	Steven	Jason	[Rainbow querv] Ouerv operator

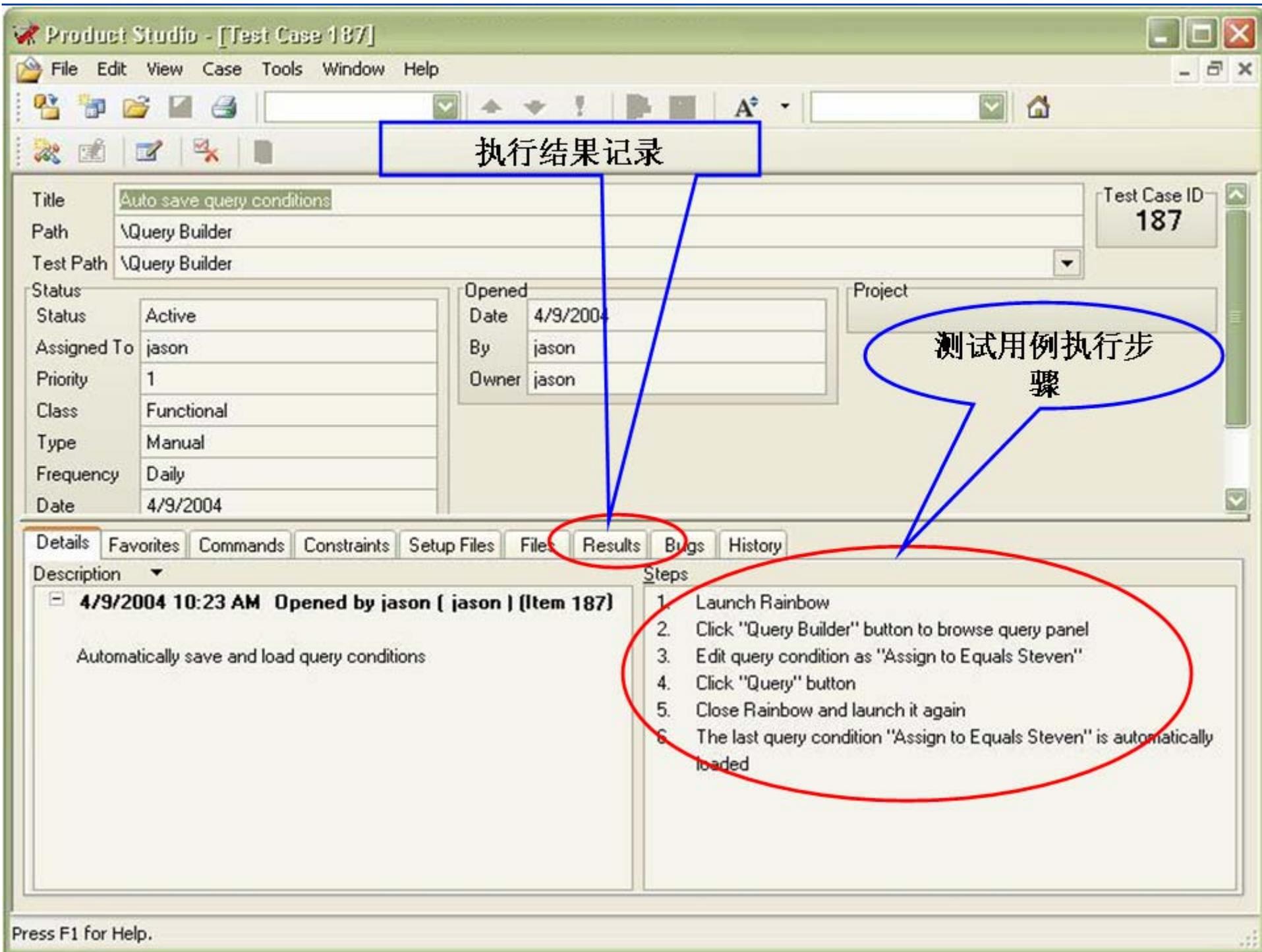
测试人员第一件事做什么？

- 答案：打开Bug管理工具，查看指定给自己的Bug，验证已解决的Bug

接下来, 测试人员会...

- 从发布服务器上取得当天的Build版本, 根据测试用例检验当天的Build
- 在Bug管理工具中登记新发现的Bug, 等待开发人员解决





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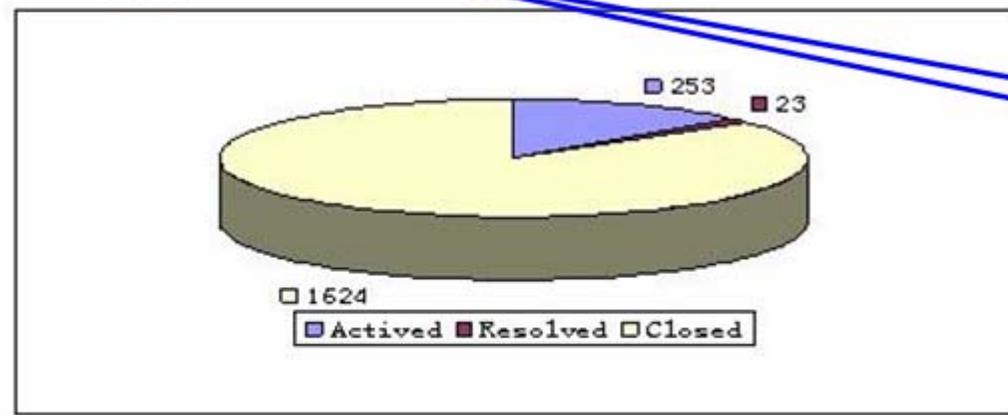
下班前，测试人员会...

- 发送当天或者一周的Bug报告和测试用例报告

From: Jason Wang

Sent: Fri 7/2/2004 7:14 PM

Bug Status:



Bug状况及趋势

Bug Trends:

	Current Week	Prior Week
Active Bugs	253	260
Opened Weekly	103	140
Resolved Weekly	120	115
Closed Weekly	114	121

测试用例执行结果

Test Coverage:

Test Pass: 1498
New test cases added this week: 157
Total test cases for project: 2305
Percent Passing: 65%

Test Case Status	# Pass	# Fail	# Ignored
[Rainbow Operation]	822	73	287

程序经理的工作

- 主持Bug专家会诊
- 更新项目的计划、日程表、产品规格书、风险控制列表
- 发送Status Report
-

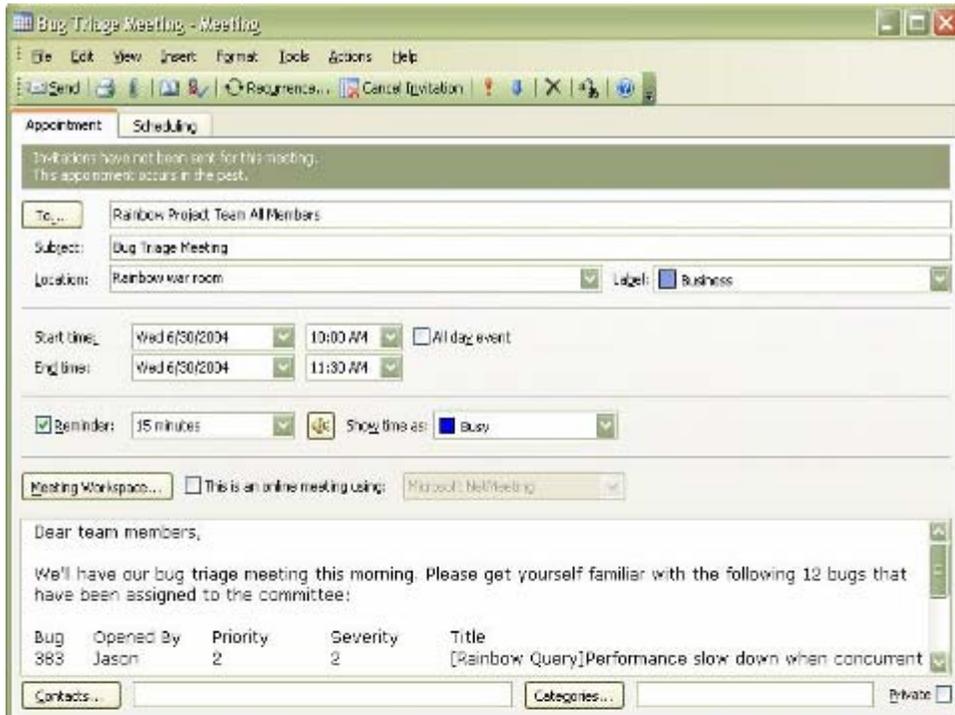
PM is the communication hub!

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程序经理的工作

- 主持Bug专家会诊
- 更新项目的计划、日程表、产品规格书、风险控制列表
- 提交Status Report



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程序经理的工作

- 主持Bug专家会诊
- 更新项目的计划、日程表、产品规格书、风险控制列表
- 提交Status Report

更新团队站点信息

使用 Microsoft Project 分配工作

Task ID	State	Task Name	Duration	Finish	Resource Names
1	Active	Development	3 days	Wed 4/29/04	Art Benson@P...
2	Active	Design in-store pickup, store locator and inventory services	2 days	Tue 4/27/04	Art Benson
3	Active	Identify implementation tasks for new services	1 day	Wed 4/28/04	Art Benson
4	Active	Testing	10 days	Mon 5/17/04	Renee Davis@P...
5	Active	Scenario Tests	10 days	Wed 5/12/04	Renee Davis
6	Active	Test: In-store pickup: Customers should be able to pickup their online orders in a retail st	3 days	Mon 5/24/04	Renee Davis
7	Active	Test: Store locator: The website should provide the store locator functionality.	1 day	Tue 5/25/04	Renee Davis
8	Active	Test: Store search: Customers can locate a store by City, State, Zip Code	1 day	Wed 5/26/04	Renee Davis
9	Active	Test: Store Map: The website should assist the customer with map and driving directio	1 day	Thu 5/27/04	Renee Davis
10	Active	Test: Store inventory: Customers should be able to check inventory by store or a store	1 day	Fri 5/28/04	Renee Davis
11	Active	Test: Hold inventory: The website should allow customers to reserve inventory for 4 d	1 day	Mon 5/31/04	Renee Davis
12	Active	Test: Confirmation: Customers should be notified upon the completion of the sale	2 days	Wed 5/12/04	Renee Davis
13	Active	Final Customer Acceptance Test	3 days	Mon 5/17/04	TBD

Microsoft Rainbow Team

Rainbow 1.0 Function Spec

Query and Results List

Wendy

维护、更新项目文档

Last Revised 6/30/2004
Last Revised By Wendy

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提交每周的项目状况报告

Welcome to the Rainbow team website
Rainbow team reports

You can find here the progress report of various programs RTC&C runs. Enjoy!

Select a View: All Forms, Explorer View, Merge Forms, My Forms, Reports view

Actions: Alerts, Export to spreadsheet, Modify settings and columns

Report Name	Modified By	Modified
Weekly RTC&C PM report - 05-20-04	David	6/26/2004 2:49 PM
Weekly RTC&C PM report - 05-17-04	David	6/26/2004 3:18 PM
Weekly RTC&C PM report - 05-14-04	David	6/26/2004 3:19 PM
Weekly RTC&C PM report - 06-04-04	David Garle	6/26/2004 3:19 PM
Weekly RTC&C PM report - 05-11-04	David	6/26/2004 3:19 PM
Weekly RTC&C PM report - 05-27-04	David	6/26/2004 3:19 PM

实现阶段的退出标准

- 代码完成
- 单元测试
- UI冻结
- 用户文档
- 详细规格文档

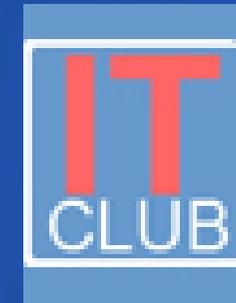
参考资源

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济南: <http://qilusoft.org/qtec>



上海: <http://www.chinaitclub.org/>



北京: <http://bjnc.cnblogs.com>



南京: <http://www.bypro.net>



青岛: <http://www.qddn.net>



MSDN Webcasts

Q&A

如需提出问题, 请单击“提问”按钮并在随后显示的浮动面板中输入问题内容。一旦完成问题输入后, 请单击“提问”按钮。

The screenshot shows a window titled "问题和解答 (无问题)" (Questions and Answers (No Questions)). The window has a light blue header with a question mark icon on the left and a close button on the right. The main content area is a large white text box containing the text "在此会议中尚未解答任何问题。" (No questions have been answered in this meeting yet.). Below the text box is a smaller input field with the placeholder text "要向演示者提问, 请在此处键入问" (To ask a question to the presenter, enter the question here). To the right of this input field is a small icon of a question mark. Below the input field are three buttons: "提问(A)" (Ask), "删除(D)" (Delete), and "问题管理器(Q)" (Question Manager).

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