### **ClearQuest EmailPlus**

- An Enhanced Email Notification Mechanism

**Alan Murphy** 

IT Specialist, IBM Rational Brand Services

Alan.murphy@uk.ibm.com

IBM Rational Software Development Conference 2008

WHERE TEAMS ARE





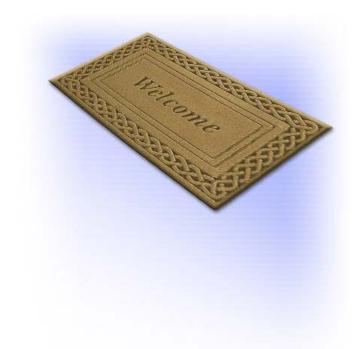






# Agenda

- Limitations of Today's ClearQuests Email Sending Solution
- What Is EmailPlus
- EmailPlus Features
  - Configuration
  - Operating Modes
- How Do You Get EmailPlus?





## No Sending Context

- Emails Can Only Contain:
  - Data from one record
  - New or Old Field Values Only
  - Nothing from the Environment
  - Nothing from Other records
  - No Explanatory Text

Subject: ID:RSDC00000012

Headline: Problem with logon Screen
Priority: 2-Give Immediate Attention
Owner:Hawkeye
Submitter:Gatekeeper
SubmitDate:2008-09-10 11:23:00
Description:The user ID field isn't wide enough to contain largest permitted value





### No Rich Content

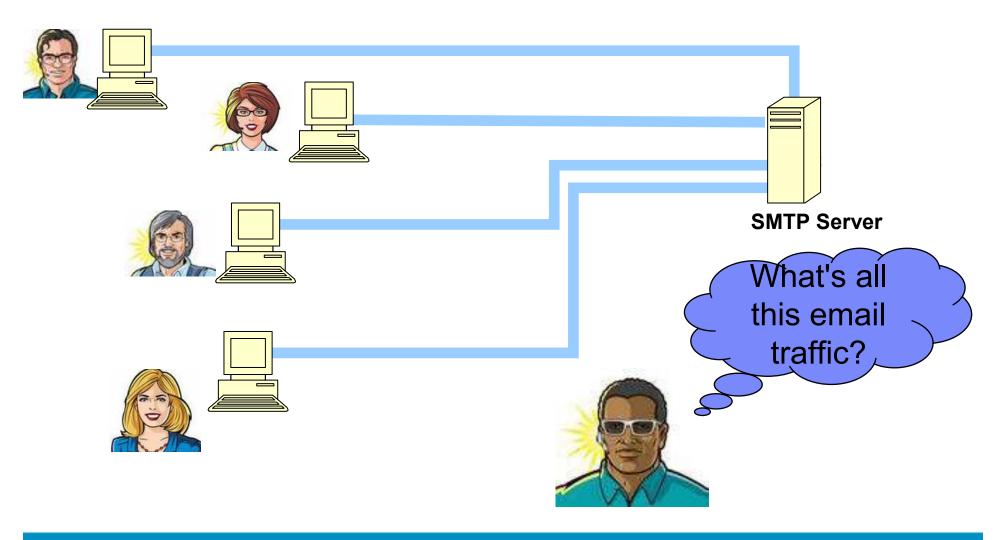
- ✗ No Emphasis In Content
  - Can't Use Text Effects Like Bold etc
  - Can't Use Colour
  - Can't Insert Graphics
  - Can't Add Attachments
  - Can't create a link to the record

I expect Rich
Content in my
e-mails to
highlight important
information and
improve readability



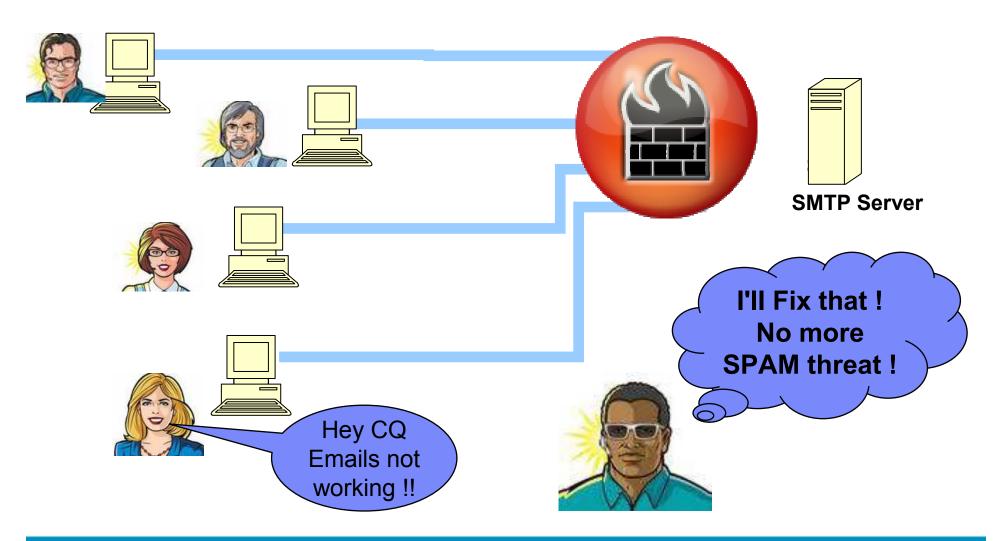


### CQ Clients Talk Direct to SMTP Server





## **SMTP Server Lockdown**



### Other Limitations

- Limited Rule Conditions Based On:
  - State Transitions
  - Actions
  - Query on Data in Triggering Record Only
    - Performance Can be a Problem with lots of Rules
- Limited Addressing Capabilities
- XNot End-User Customisable / Extensible
- **\***MAPI now effectively useless due to security patches





## What is EmailPlus?



- A New ClearQuest Email Package
  - Replacement For Out-of-the-Box Email Rules Package
  - Written in VBScript
    - Any Custom Extensions are done in VBScript
    - Works in Perl Schemas (Windows Platforms Only)
    - Certain Transport Modes Require a Free Third Party Component
  - Emails based on a template that can:
    - Provide Boiler Plate Text
    - Take Data from many sources Not just the record
- Supplied as an add-on by the Rational Services Team



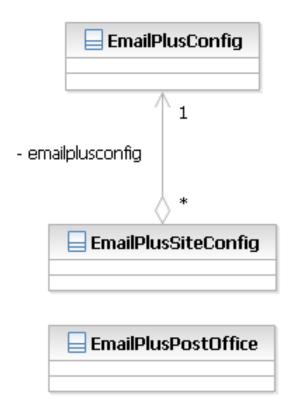
### What Does EmailPlus Give Me?

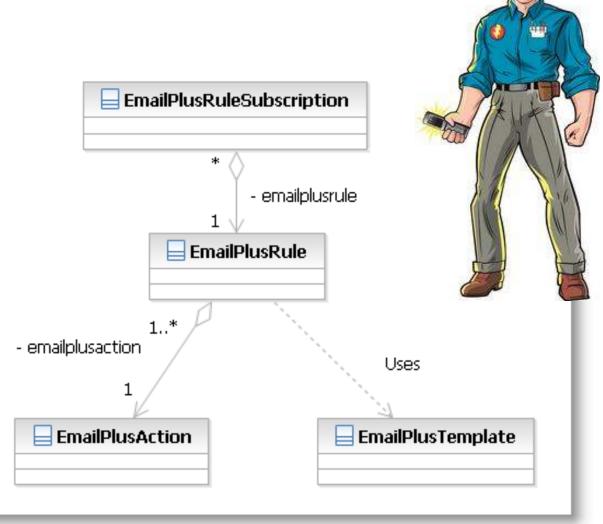
- Rich Content including:
  - Embedded Graphics including ClearQuest Charts
  - Hyperlinks / URLs to Records, Queries, Charts & Reports
  - Use text effects such as font, size, bold and colour
  - Add File Attachments from the triggering record
- Vastly Extended Rules Capabilities
  - Doesn't Use Queries
  - No longer limited to just data in the triggering record
  - Can use:
    - VBScript built-in Functions / Functions in your Schema
    - ClearQuest API functions
- Users can Self Subscribe to rules and Record changes at admin discretion





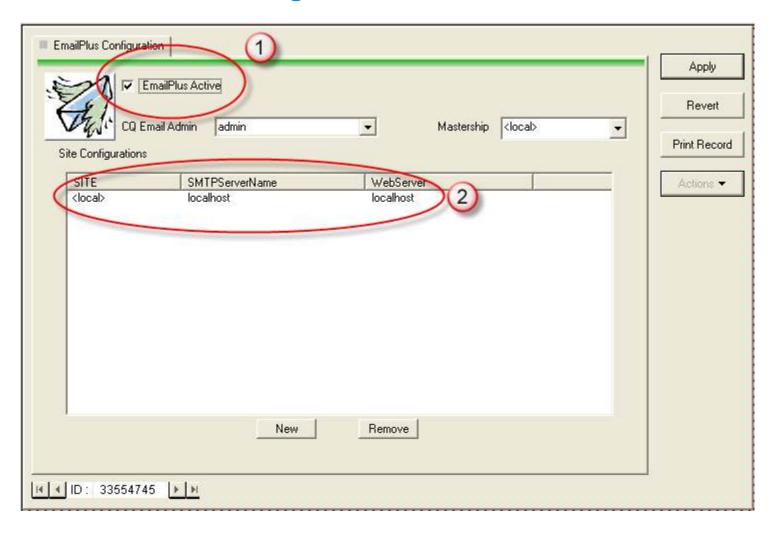
## How Does it Work?







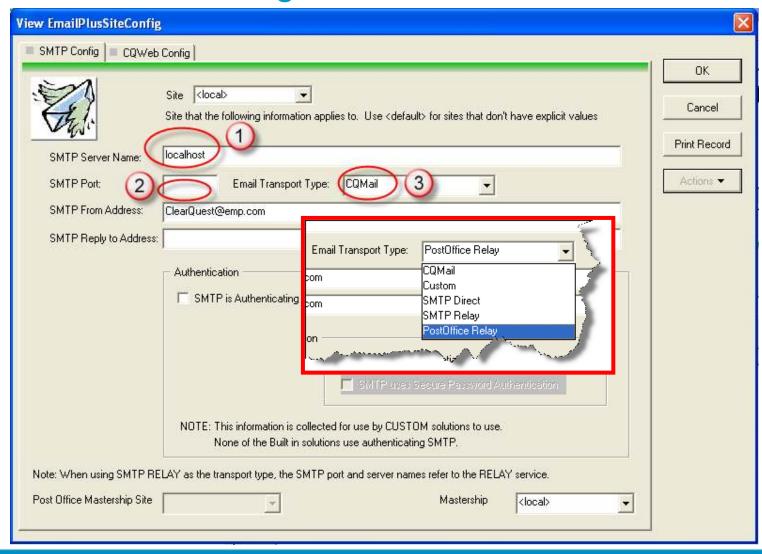
## **EmailPlus Configuration Record**





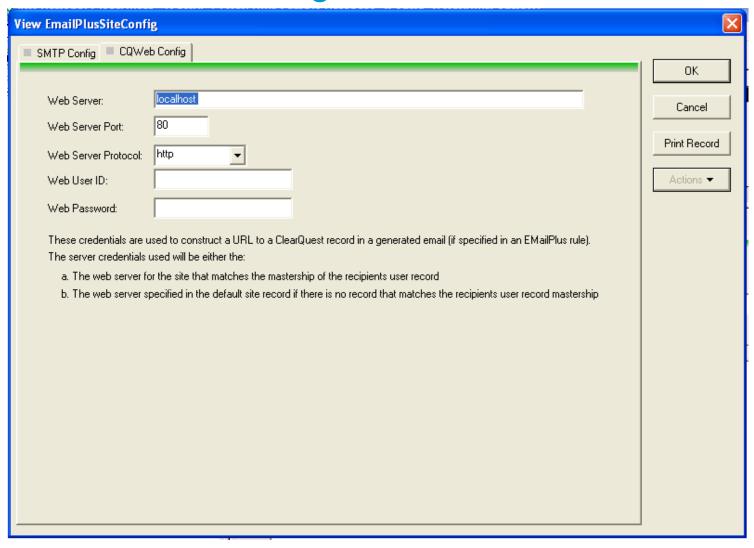


## **EmailPlus Site Configuration Record - 1**



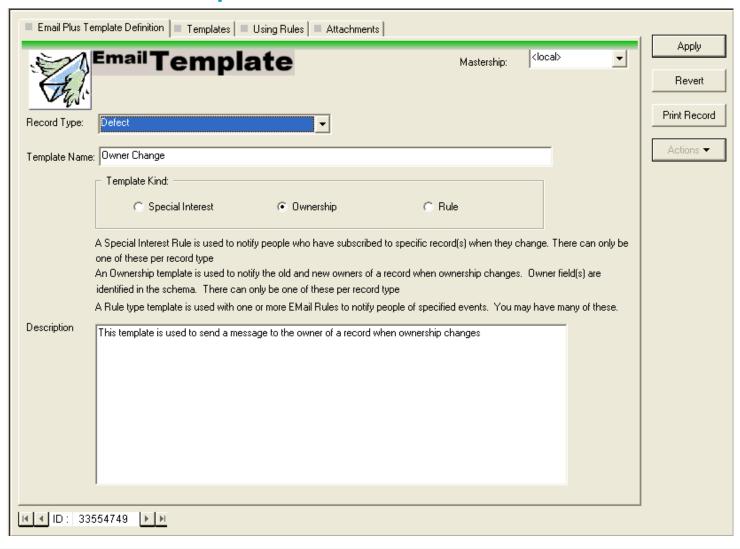


## EmailPlus Site Configuration Record - 2





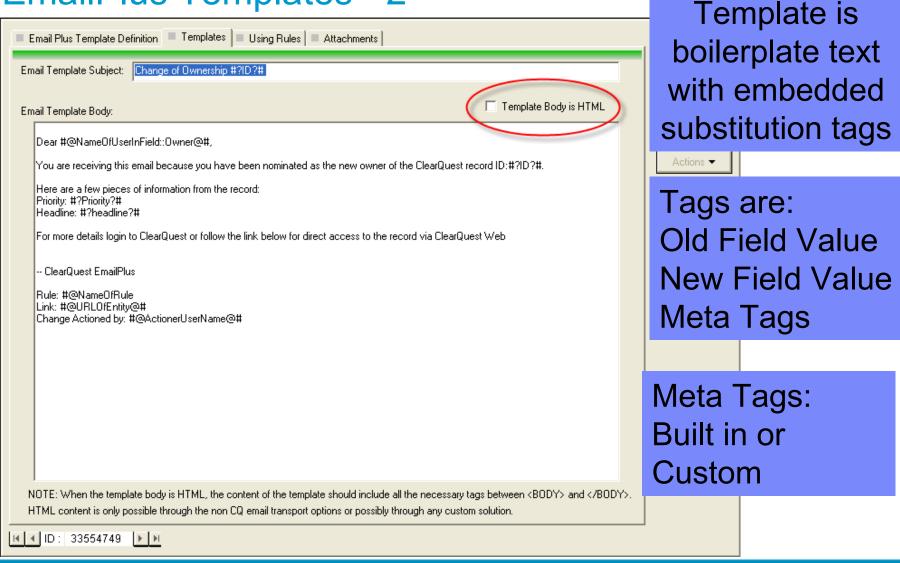
## **EmailPlus Templates - 1**



CRMA04 14



## EmailPlus Templates - 2





## Template Tags

- Replace tag with Current Field Value e.g. #?state?#
- Replace tag with Old Field Value e.g. #%state%#
- Replace Meta Tag with tag value e.g. #@NameOfRule@#
- Create Your Own Custom Meta tags
- Use Arbitrary VBScript Expressions
- Embed field tags in Expressions
  - Operate on Field Value
    - #@expression::formatdatetime(#?submit\_date?#,1)@#

### **Available Meta Tags**

- URLofEntity
- URLofQuery
- URLofChart
- URLofReport
- ActionerUserName
- NameofUserInField
- NameOfRule
- AttachmentByName
- AttachmentByDescription
- EmbedChart
- Expression







## **Example HTML Based Template**

- <img src="cockroach.jpg" HEIGHT=120 WIDTH=180 ALIGN=middle>
- <H1>New Defect Submission # #?ID?#</H1>
- <B>Severity: </B><font color="#@expression::AorB(#?Severity?# = "1-Critical", "red", "green")@#">#?Severity?#</font>
- <B>Submission Date :</B> #@expression::formatdatetime(#?submit\_date?#,1)@#<BR>
- <B>This Defect was submitted by: </B>#?submitter.fullname?#(#?submitter?#)<br
- <B>EMail: </B> #?Submitter.email?#<BR>
- <H2><font color="green">Headline:#?Headline?#</font></H2><BR>
- <B><font color="green">Description :</b>#?Description?#</font><BR>
- <H2>Current Workload Assignment</H2><BR>
- #@embedchart::Public Queries/Distribution Charts/Active Defects by Owner::::@#<BR>
- <B>ClearQuest</B><BR>
- --//---<BR>
- <B>Generating Email Rule Name: </B> #@NameOfRule@# <BR>
- <B>Actioner User Name:</B> #@ActionerUserName@#<BR>
- <h3>#@URLofEntity::ClearQuest Web Link to New record @#</h3>





## **Example Generated Email**

- Template is an HTML Body part
- Mail Transport used SMTP Direct



### New Defect Submission # SAMPL00000054

Severity: 1-Critical Submission Date: 26 August 2008

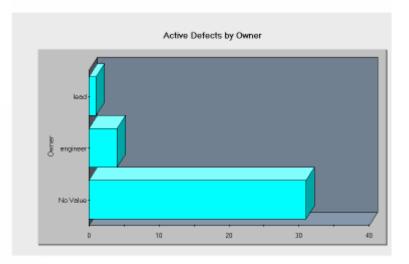
This Defect was submitted by: ClearQuest Administrator(admin)

EMail: cqadmin@home.com

#### Headline: A New defect has been born

**Description**: This new defect occured while I was running the automated test suite. I noticed that there was an inconsistentcy in terminalogy used. In more places the word Logon is used, but on this screen it says Login

#### **Current Workload Assignment**



#### ClearQuest

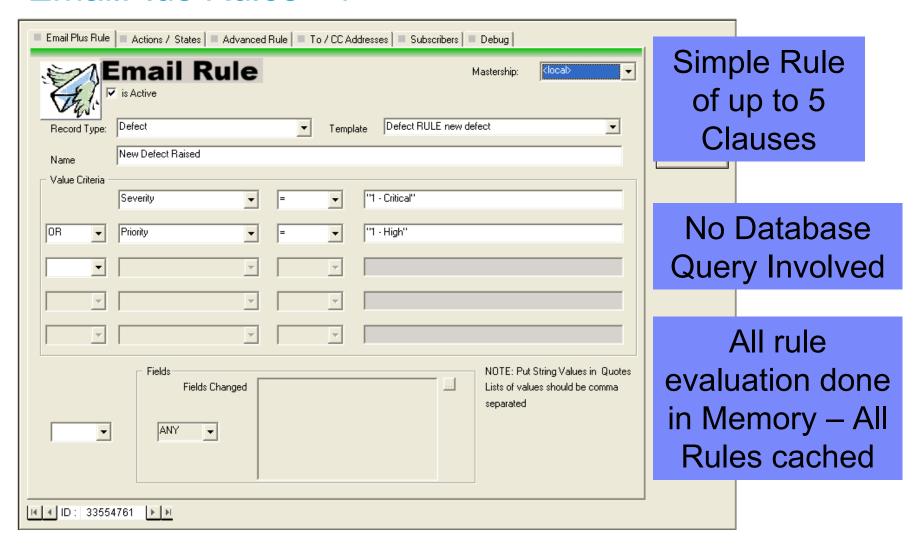
--//---

Generating Email Rule Name: New Defect Submitted Actioner User Name: ClearQuest Administrator

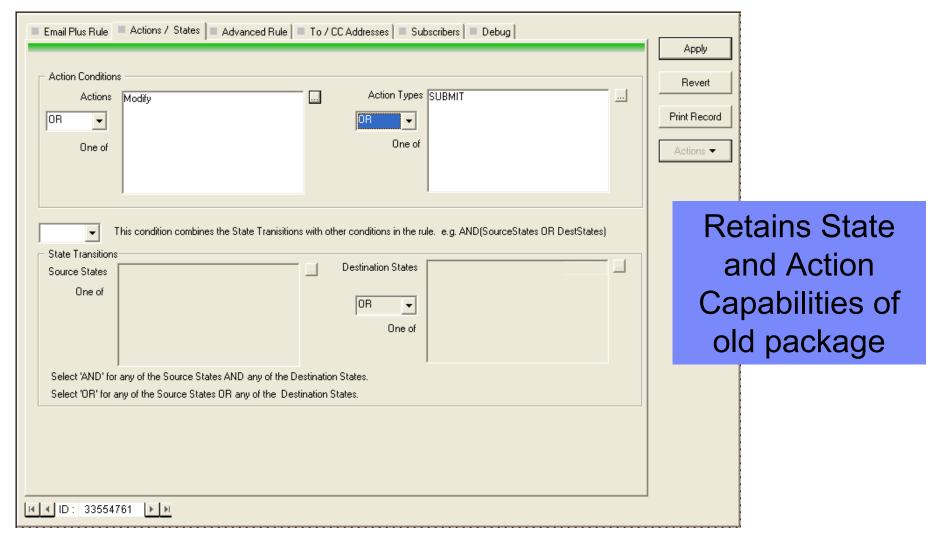
#### ClearQuest Web Link to New record

CRMA04 18

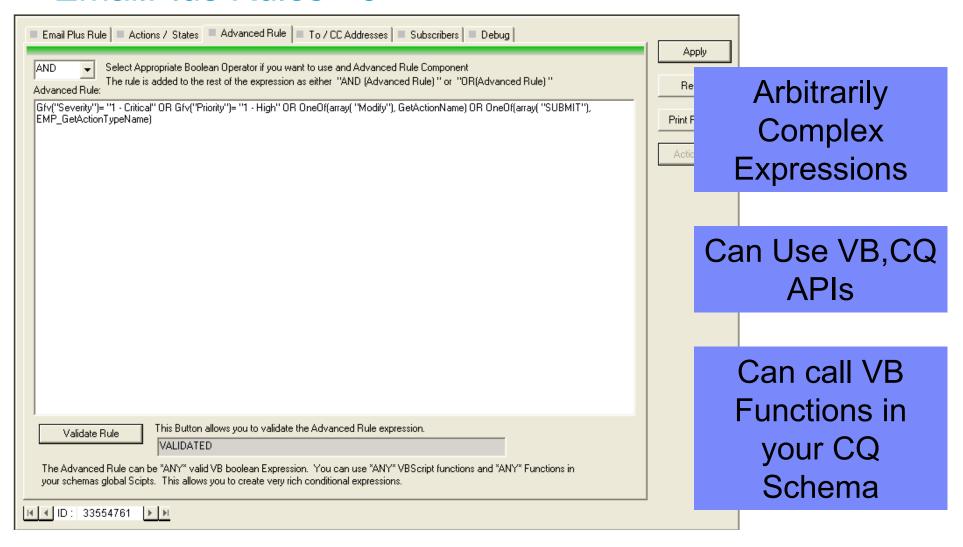




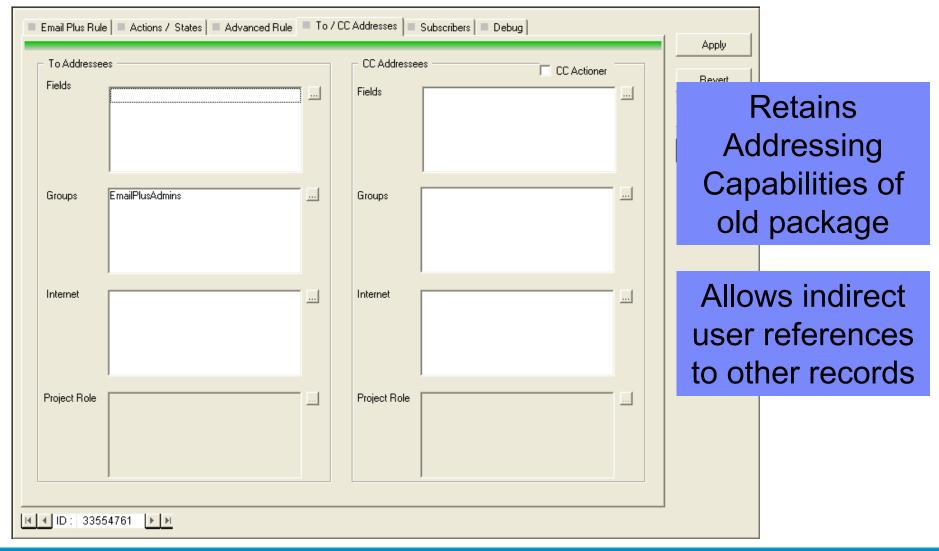




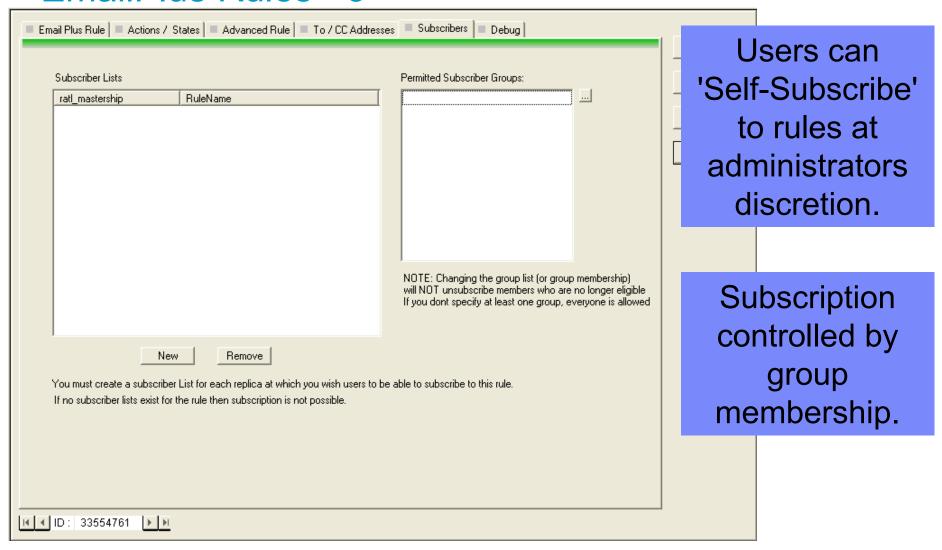














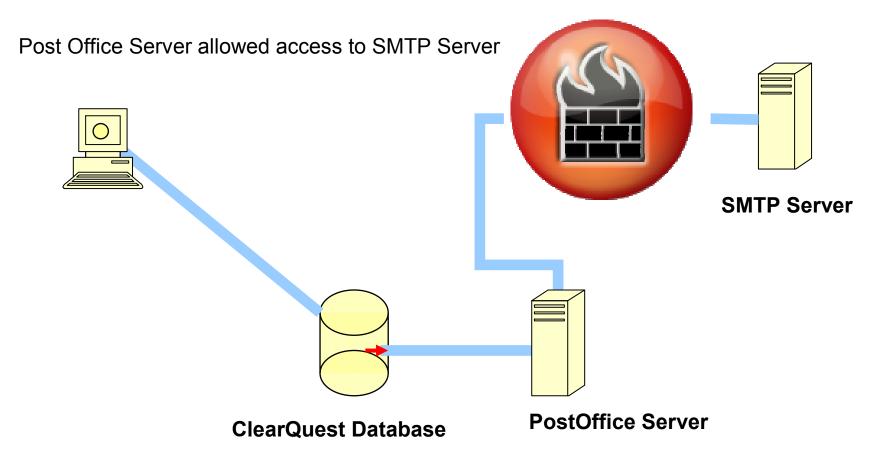
## Features By Mail Transport Types

FEATURES	CQ	SMTP	SMTP	PostOffice Relay		Custom
	MAIL	Direct	Relay	CQ Mail	3rd Party	
Templates	Υ	Υ	Υ	Υ	Υ	?
Email Rules Simple	Υ	Υ	Υ	Υ	Υ	?
Email Rules Advanced	Υ	Y	Υ	Υ	Υ	?
HTML Content	N	Y	Υ	N	Υ	?
Mail Headers	N	Y	Υ	N	Υ	?
Embedded Graphics	N	Y	Υ	N	Υ	?
Attachments	N	Υ	Υ	N	Υ	?
Mail Relay	Y/N	Y	Υ	Υ	Υ	?
Subscriptions	Υ	Υ	Υ	Υ	Υ	?
Multisite Support	Υ	Υ	Υ	Υ	Υ	?
UNIX Platform	N	N	N	N	N	N
Windows Platform	Υ	Y	Υ	Υ	Υ	Υ

Some Modes Require a free 3<sup>rd</sup> Party Component to be installed



## Post Office Mode



CRMA04 25



## **SMTP Direct Mode**

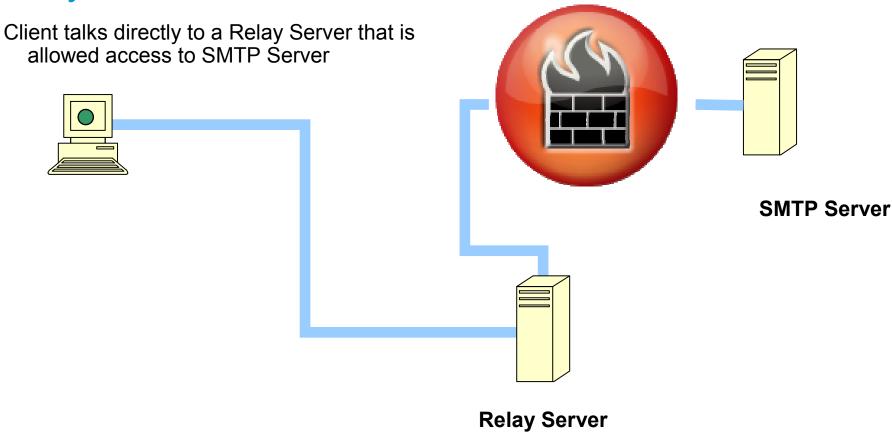
Clients allowed direct access to SMTP Server

SMTP Server

- Can use Either:
  - ClearQuest Email Component
  - Third Party Email Client Component



# Relay Mode

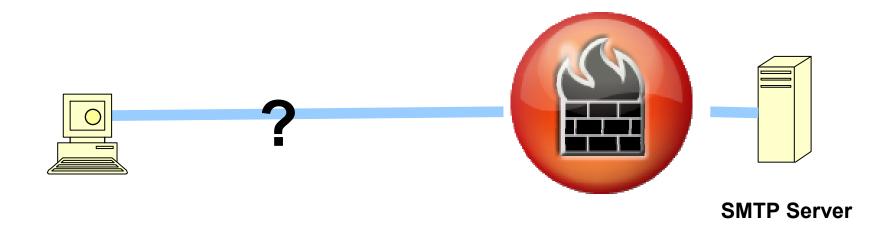


CRMA04 27



### **Custom Mode**

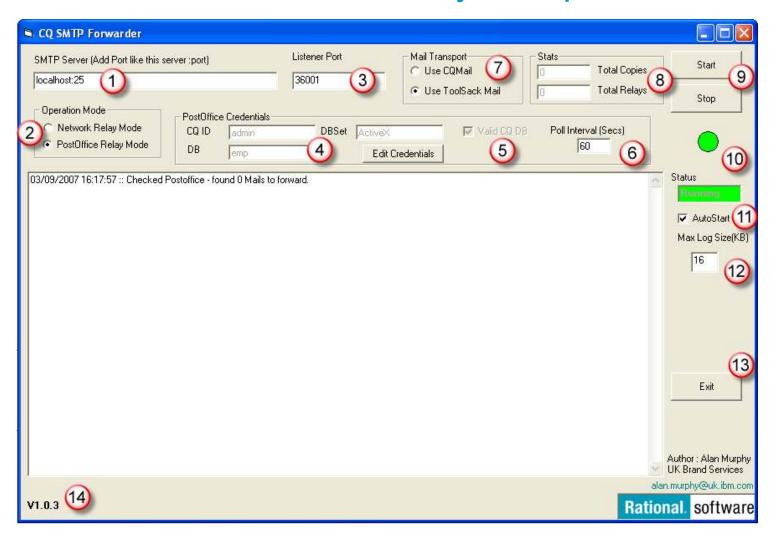
Clients Sends Email However YOU Choose



- Can be customised to use whatever mechanism YOU want to use.
- Provides a Template routine which you provide the implementation of
  - Must be in VBScript even in a PERL schema.
    - Cannot call PERL routines in your schema



## **EmailPlus Post Office & Relay Component**





### How do You Get EmailPlus?

- EmailPlus is Offered as an IBM Rational Services Engagement
  - 2 or More days depending on
    - Client Experience
  - Basic Service Includes:
    - Installation of Package and Relay Component as required
    - Configuration
    - Administrator Training
    - Converting Existing rules
    - Authoring New rules and templates
  - Support and Enhancements are offered on a Services Engagement Basis
  - Updates Free as they become available
    - Client Install or through paid Services





## RU Ready For EmailPlus?

- Like What you've Seen?
- Want to Know More ?
- Contact:





alan.murphy@uk.ibm.com





Mark Calder calderma@uk.ibm.com



Mark Roberts markroberts@uk.ibm.com





### **IBM Rational Software Development Conference 2008**







