

Closing the Loop On Quality Integrating Customer Feedback

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Speakers Qualifications

- **Gopal Jorapur**

- Staff Engineer, Sun Java System Application Server, Quality Engineering organization at Sun Microsystems
- Working with account teams that deal with customers
- Worked on High Availability features of Application Server
- Presented at Sales conferences

Presentation Goal

Lessons learned:

**Integrating customer feedback into the quality
process**

Presentation Agenda

- Challenge
- Approach
 - Build a winning team
 - Feedback process
- Recommendations
- Takeaways
- Q&A

Challenge - Problem Definition

- Poor Installation Procedures/Process
- Problems with Upgrade/Migration path
- Unclear Configuration Issues
- Ease of Use
- Frustrating User Experience
- Unclear documentation/Ineffective tutorials
- Incomplete training

Challenge

- Poor Installation Procedures/Process
 - First impression of the product
 - Too many steps
 - Complicated and confusing steps
 - Dependency failures
 - No error message/No logs for failed installation

Challenge

- Problems with Upgrade/Migration path
 - Most critical to customers
 - Customer application/configuration not saved
 - Re-do of configuration/deployment is too costly for customers
 - Customer development/production schedule slip
 - Regressions, major issue

Challenge

- Unclear Configuration Issues
 - No straight forward steps
 - Too many documents to refer
 - No Quick start kind of guide/documentation
 - No error code/error message mapping
 - No troubleshooting info

Challenge

- Ease of Use
 - Tools are complicated
 - Too much documentation to be read
 - Technology expertise needed
 - No going back on configurations
 - Proper error messages for every Invalid syntax

Challenge

- Frustrating User experience
 - Tools take too much time to start
 - No information during background work, like starting servers
 - Deployment/Redeployment procedures complicated
 - No online help

Challenge

- Unclear Documentation/Ineffective Tutorials
 - Insufficient/Nonworking examples (examples does not relate to customer usage)
 - Broken links
 - Non working commands
 - Reference to old version technology

Challenge

- Unclear Documentation/Ineffective Tutorials
 - Cross references with no details anywhere
 - These are the only interfaces to the product, so need to be clear/precise and accurate
 - Technology not explained

Challenge

- Incomplete Training
 - Training document has flaws
 - Poor review of training materials
 - Old samples carried forward
 - New features not highlighted

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Approach

- Open a channel of communication
- The approach is two fold
 - Build a winning Team
 - Form a team involving all stake holders
 - The feedback process
 - Get technical issues and feedback about Documentation/Tutorial etc

Approach

- Build a winning Team
 - Sustaining Team
 - Sales engineers/Professional Service
 - Quality Engineering
 - Development engineering

Approach

- This team can take care of
 - Tracking the cases
 - The discussion on the issues
 - The resolution for the issue
- The issues can be quickly resolved by this team

Approach

- Sustaining Team
 - Experience in dealing critical and Time bound issues
 - Has data about overall customer issues
 - Needs collaboration with other teams

Approach

- Sales engineers/Professional Service (Field data)
 - Front end for customers
 - Has knowledge about real issues at customer place, Product usability issues with specific customer
 - Has data on User experience/Documentation issues

Approach

- Quality Engineering
 - First inhouse customer
 - Needs to simulate the real issues
 - Focus on Real life configurations
(Topology/Upgrade/Migration testing)
 - Focus on most used areas
 - Get feedback from sustaining/Sales
 - Understand the feedback, design more test cases with respect to Top 10 complex customer scenarios

Approach

- Development engineering
 - Understand how their code is used outside
 - Help Sustianing to fix issues
 - Understand significance of Documentation/Training material
 - Improve design/implementation of subsequent product based on information gathered in this process

Approach

- The Feedback Process
 - Replicate customer issue
 - Build test cases around exposed test area
 - Focus on Documentation/Training docs

Approach

- Replicate customer issue
 - Customer configuration is typically complex
 - Extract the part of configuration/application that's cause of the issue
 - Simulate the customer scenario
 - Get Data from Sustaining engineering/Sales engineering
 - Help development in debugging by simulating customer environment

Approach

- Build test cases around exposed test area
 - Understand the overall customer escalations
 - Categorize them into modules
 - Increase test coverage for the module that has high number of escalations
 - Write test cases around the escalation
 - More number of escalation indicates need for more test development

Approach

- Focus on Documentation/Training docs
 - Get feedback about documents
 - Short list the high priority docs/components
 - Revisit the review process
 - Involve the right people for the review
 - QE, Engineering, Support

Approach

- Focus on Documentation/Training docs
 - Non technical people should also review, to know how easy to use the Product using the docs
 - Online survey about the documentation, every doc should have feedback section

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Recommendations

- Recruit Top 5 complex customers for the Beta program
 - Get Free testing done
 - Give incentives for them
- Get Top10 customer used scenarios and provide them as samples for next release

Recommendations

- Highlight important RFE's from customers feedback, provide them to Product Management
- Include escalation test cases in Regression Test suite for next release

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Takeaways

- Understand the Quality organization's role and importance in customer escalations.
- Customer view changes for cross-functional teams
 - QE, Development, Documentation, Sustaining
- Enhanced test coverage
- Improved customer satisfaction
- Management feedback on understaffed feature

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Q & A