Agile for Legacy to SaaS Migration: 10 Key Considerations
- Raja Bavani
Agenda

- Introduction
- SaaS: The Basic Building Blocks
- Legacy to SaaS Migration: Benefits and Challenges
- Ten Key Considerations
- Q&A
Introduction

The startups of the Internet era & the eventful decade!
SaaS: Basic Building Blocks

- Multi-tenancy
- Security & Privacy
- Configurability
- Scalability
- Compatibility
- Ease of Integration
- Standards
- Robustness
Legacy to SaaS Migration: Benefits & Challenges

- High Scalability
- Rapid Deployment
- Cost-effective Model
- Ease of Upgrade
- Reduced Support

- Legacy Code & Design
- Re-engineer or rewrite?
- Data Migration
- Integration
These will help you answer

- How to start?
- What strategy to follow?
- How to validate?
- How to manage risks?
- How to avoid failures?
- ..and many such questions!
1. Divide and Conquer

- ‘Big Bang’ approach does not work
- Phased approach works
- Consider foundation phase(s) to prepare for the subsequent phases
- Derive a high level plan of subsequent phases
2. Be Agile

- Follow Agile principles within each phase
- Agile improves visibility and predictability
- Use as many agile best practices that suit the context
3. Theme Based Iterations

- Legacy to SaaS migration projects involve many categories of related activities (Data Migration, Customization, Compatibility Testing, Compliance, Integration, etc.). Consider theme based iterations.
4. Architecture Prototyping

- A technique to validate product architectures at early stages by means of implementing architecturally-significant user stories first
- Architecture prototyping reveals the strengths and improvement areas of architecture
5. Inspection Driven Focus on Quality

- Inspection and review of code, configuration file, look-up data, etc.
- Automated review or static analysis tools will improve productivity. Physical inspections are necessary as well.
6. Staggered QA and Independent QA

- Staggered QA: Functional Testing & Acceptance Testing
7. Create Tools

- Legacy to SaaS migration projects involve categories of tasks such as data migration, data imports, etc.
- Home-grown tools improve productivity as well as quality in such categories of tasks.
- Examples: Schema validation, Verification of look-up data, verification of configuration files, import/export of data.
8. Automated Web Services Testing

- Web Services are most commonly found in SaaS based products
- Investment in Web Services testing improves the quality of integration
Risk Based Testing addresses high risk areas first
That will help you in finding solutions proactively
10. Knowledge Management

- Legacy to SaaS migration projects are highly complex
- Team members need to know the business domain as well as technology
- Implementing KM practices is essential
Any Questions?
Our Mission

Successful Customers
Happy People
Innovative Solutions

Raja Bavani
raja_bavani@mindtree.com
+91 20 67924038
www.mindtree.com