

HDI® 2018

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Flow, Feedback and the Service Desk

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About...



ITSM Academy

- Full service provider of IT Service Management (ITSM) education and advice
- Accredited and sustainable education and training
 - ITIL®
 - Process Design (CPDE)
 - DevOps
 - Agile Service Management®



Donna Knapp

- Author
- Curriculum Development Manager
- Certified Process Design Engineer
- ITIL® Expert, ITIL Practitioner
- DevOps Foundation, DOL, DTE
- Certified Scrum Master
- Certified Agile Process Owner
- Certified Agile Service Manager
- Certified in Knowledge-Centered Support (KCS) Principles

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Agenda

Flow

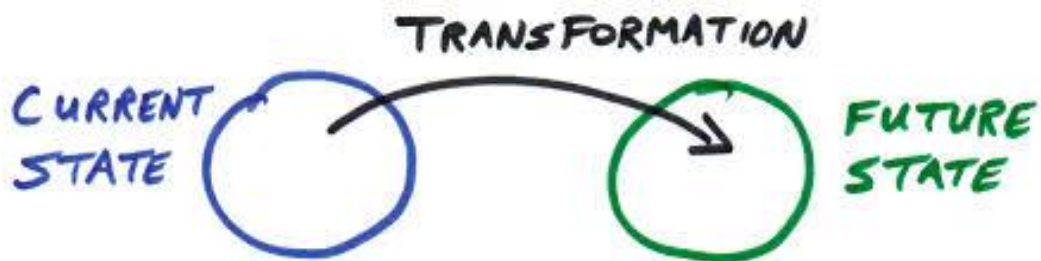
Feedback

Experimentation and continuous improvement

The role of the service desk

The role of leadership

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IT is Undergoing a Transformation

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Agile and DevOps Practices are Part of the Transformation

Speed – Agility – Productivity – Stability – Quality

The Business



Winning through
Innovation

Agile/Lean/DevOps/Agile Service Management



Continuous Integration, Continuous Delivery, Continuous
Testing, Continuous Monitoring, Continuous Operations

*Improving the ability of IT to produce software faster
improves the ability of the business to deliver value to customers faster.*

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An important point...



- Not all applications are created equal
- Agile and DevOps focus on applications where speed will make a **business** difference

DevOps is a cultural and professional movement that stresses communication, collaboration and integration between software developers and IT operations professionals while automating the process of software delivery and infrastructure changes

What this Means to the Service Desk

- Variable rate projects are heading your way
 - Understand the implications
- You are still the 'face' of IT
- Get good at setting expectations
 - Service level agreements
 - Service catalog
 - Communication channels (meet customers where they are)
- Get good at asking for what you need
- Get good at communicating what you do and what you have

The Service Desk plays an important role in both (1) helping the business and IT prepare for a faster rate of change and (2) capturing customer experience.

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DevOps and Technical Support

- 73% of support teams are dissatisfied with their current level of involvement with development
- 32% do not share knowledge articles between the support and development teams
- While 89% of organizations have a change management process implemented, only 49% of organizations have one that works
- 10% of organizations are considering DevOps

Source: HDI Research Brief 02/2016

How can we change things?



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Flow

Understand and increase the flow of work

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Flow

- Principles of Lean thinking



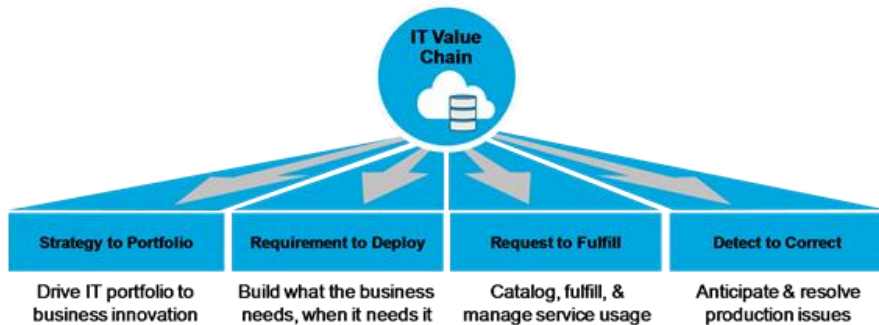
Theory of Constraints

Identify the most important limiting factor (i.e., constraint) that stands in the way of achieving a goal and then systematically improve that constraint until it is no longer the limiting factor.

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IT Value Streams

IT4IT is a standard reference architecture for managing the business of IT.



Source: <http://www.opengroup.org/it4it/about>

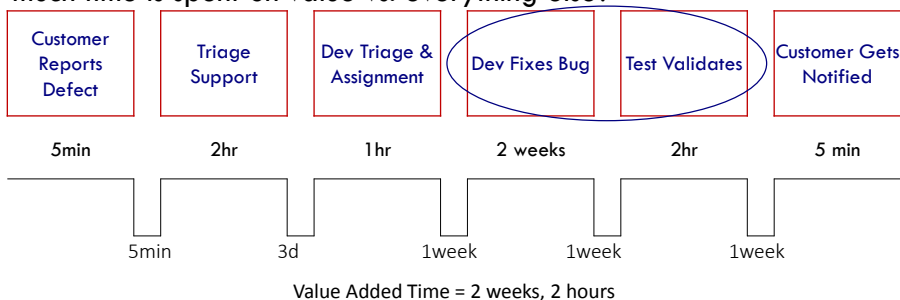
The IT4IT Reference Architecture standard can be downloaded from The Open Group web site.

A Simple Example – Current State

Defect Resolution Process

- Where is value created in the process?
- How much time is spent on value vs. everything else?

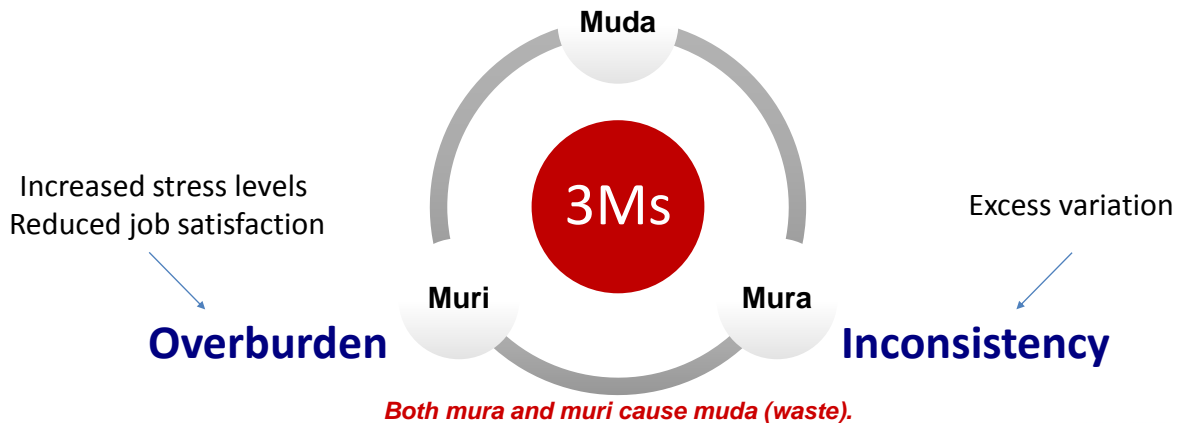
Value efficiency: Being able to produce value with the minimum amount of time and resources.



In this example, it takes the organization 6 weeks to deliver 2 weeks worth of value to the end customer.

Barriers to Flow

Waste



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The Tiered Support Challenge

- The traditional tiered support model is designed to handle incidents in the most efficient way possible
- Despite its intended benefits, challenges are emerging including
 - Work in process (WIP) queues
 - Delayed resolution as an incident works its way through the tiers
 - Overwhelmed service desk analysts and subject matter experts
 - Incorrect incident routing resulting in delays, lost productivity and ticket bouncing
 - Poor collaboration and knowledge sharing

An ineffective tiered support model leads to longer recovery times, higher cost per incident and lower user productivity and satisfaction.

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Improving Flow

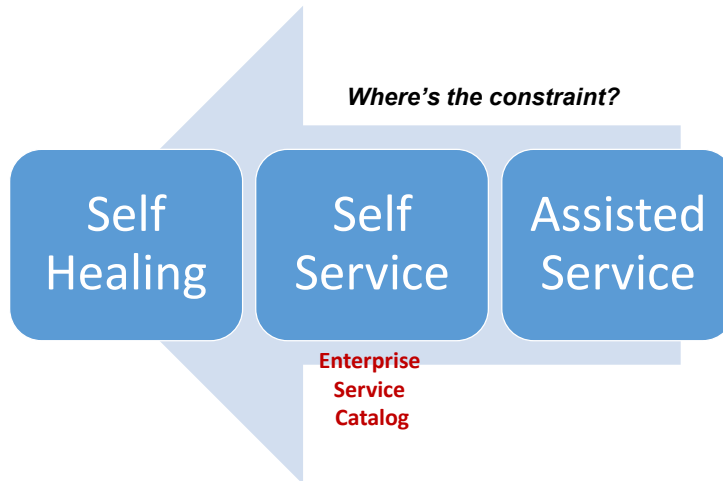
- Understand the flow of work from “idea” to “valued use” of a new feature, product, or service
- That includes
 - Customer satisfaction
 - User experience
- Understand and remove constraints
 - Reduce or remove constraints related to non-development issues
- Never allow local optimization to cause global degradation
- Understand the entire system
 - People, processes, technology, information

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Common and Emerging Practices

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Shift Left



The use of virtual customer assistants (VCAs) will jump by 1,000% by 2020 (Gartner).

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CONNECTING
WORLD
OF SERVICE &
SUPPORT

Collaborate

- **Swarming** – involves getting the ‘whole team’ together to focus on solving a single incident or problem

Swarming helps the service desk overcome the challenges of the tiered support model.

- **Kanban** – pulls work through a process at a manageable pace

Kanban Limits work in progress (WIP) to capacity.



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Sample KanBan

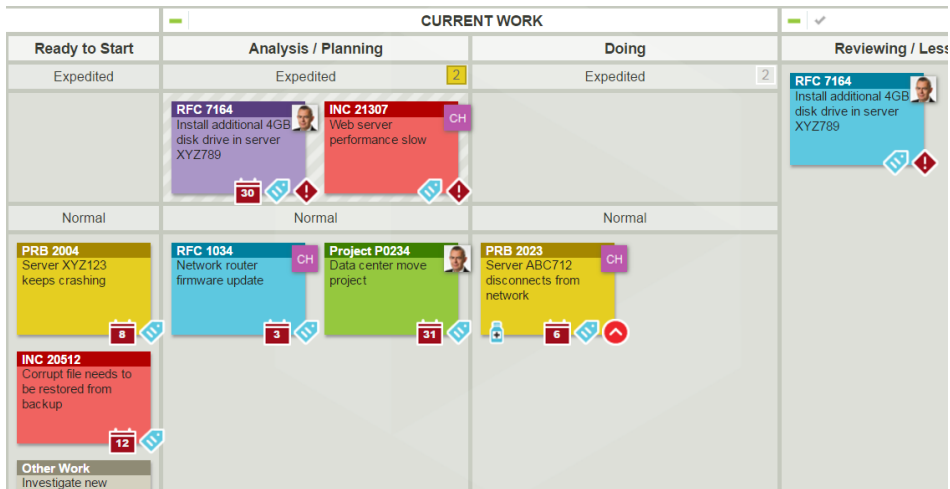


Image credit: Stuart Rance



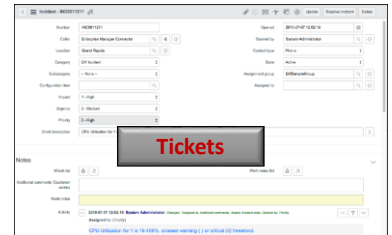
Feedback

Create and amplify short feedback loops that enable continuous improvement

The Information Flow Challenge



*Just enough.
Just in time.*



Understand how information is used and how work gets done.

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Improving Feedback

- Understand and respond to the needs of all customers – both internal and external
- Shorten and amplify all feedback loops
- Create and embed knowledge where needed

FEEDBACK



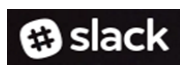
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Common and Emerging Practices

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ChatOps

Chat client + chat bots = conversation-driven development, delivery and support.



CA FLOWDOCK



Eric Sigler	I think something's up with the latest changes to Apollo.
Eric Sigler	lock apollo production
Officer URL	🔒 apollo production locked
Eric Sigler	Here's a log snippet from the web server:
Eric Sigler	lenhance "10.0.0.1", "-", "02/Dec/2014:06:34:32 +0000", "GET /someurl HTTP/1.0", "-", "-", "200", "3704", "-", "a-totally-fake-user-agent", "127.0.0.1"
Officer URL	"*a-fake-production-webservice-dns-name* (US-WEST-2B, environment: production)", "-", "02/Dec/2014:06:34:32 +0000", "GET /someurl HTTP/1.0", "-", "-", "200", "3704", "-", "a-totally-fake-user-agent", "127.0.0.1"
Eric Sigler	Istatus
Officer URL	Status: NORMAL
Eric Sigler	Idefine me apollo
Officer URL	apollo is a highly available service that creates and delivers On-call Handoff Notifications to Mercury.
Eric Sigler	All clear
Eric Sigler	unlock apollo production
Officer URL	🔓 apollo production unlocked

The transparency of ChatOps shortens feedback loops, improves information sharing, enhances team collaboration and enables cross-training. It can also be used to decrease MTTR .

The Obvious Example, but...



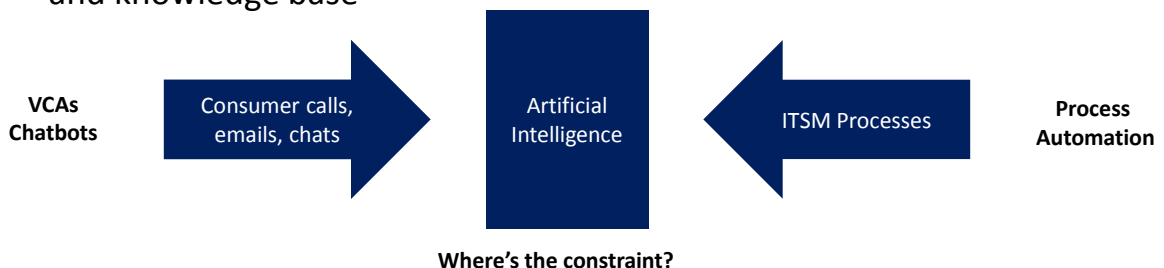
The Service Desk plays an important role in identifying how best to keep customers and stakeholders informed.

- ...the traditional monitoring approach doesn't work anymore
- DevOps incorporates monitoring as a component of the toolchain
- Leading platforms combine artificial intelligence and machine learning to proactively identify issues and their underlying root causes
- ...and yet, 43% of organizations use manual processes to keep customers and internal stakeholders up to date*

*2017 xMatters Atlassian DevOps Maturity Survey Report #HDIConf

Artificial Intelligence

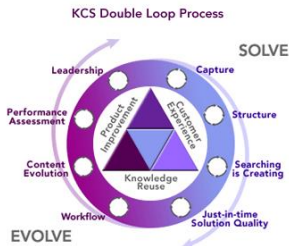
- Artificial intelligence can be applied to ITSM in a variety of ways
- It relies heavily on and contributes to the organization's historical data and knowledge base



Through 2020, 99% of artificial intelligence initiatives in IT service management will fail due to a lack of an established knowledge management foundation. (Gartner)



Knowledge-Centered Service



Source: Consortium for
Service Innovation

- Redefine what's really needed (including acceptance criteria)
- Build fast feedback loops that help improve the effectiveness of knowledge articles and artifacts
- Capture 'just enough' documentation and evolve as needed based on demand and usage
- Collaborate on the format of knowledge articles and artifacts
- Accept artifacts already being produced as part of the development lifecycle or that come in a form other than a traditional article
 - User stories
 - Release notes
 - In-application documentation
 - Videos

Increasingly, the process of producing heavily-edited manuals and knowledge articles is viewed as too slow and heavy handed.

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But we want to help!

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Service Desk Current State

Strategic

Where is your organization?

Proactive

Reactive

Help
Desk

Service
Desk

Proactive
Business
Partner
(Trusted
Advisor)

Automation will free service desk analysts to focus on higher-level tasks and on personalized, specialized support services .

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The Evolution to Proactive Business Partner

- As connected devices become more sophisticated, they will self-diagnose and seek help without human intervention
- This, coupled with the capabilities of AI and virtual support agents will result even further in reduced need for reactive support services
- This frees service desk analysts to focus on
 - Proactively identifying and leveraging existing IT capabilities to improve business capabilities
 - Enabling business user self sufficiency (e.g., by designing and managing automated self services)
 - Serving as a trusted advisor

Focus on developing capabilities your business partners want and will use and on building out your brand as a trusted advisor.

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The Future is Here



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"Many significant innovations in the past have been associated with a transition period of temporary job loss, followed by recovery, then business transformation and AI will likely follow this route.

AI will improve the productivity of many jobs, eliminating millions of middle- and low-level positions, but also creating millions more new positions of highly skilled, management and even the entry-level and low-skilled variety."

Svetlana Sicular, Gartner

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Start Now!



- Start where you are
- Align with Agile, Lean and DevOps values
- Understand and increase the flow of work
 - Expose and eliminate waste
 - Improve the constraint
 - Identify the new constraint
- Shorten and amplify feedback loops
- Embrace automation

By 2020, artificial intelligence will create more jobs than it eliminates. (Gartner)

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ITIL's guiding principles reflect Agile and Lean values.



***Thank you for attending
this session.***

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