

Webinar: Tailoring and Automating MSF Processes

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Granville Miller
Microsoft Corporation



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Osellus Inc.



- **MSF Agile (Granville Miller, Microsoft)**
 - Overview of MSF 4.0 (Agile and Formal)
 - Overview of MSF 4.0 Agile
 - Need for Customizing

- **Automating & Tailoring MSF (Sammy Wahab, Osellus)**
 - **View Published MSF Process**
 - MSF 3.1
 - MSF 4.0 Agile

 - **MSF Tailoring**
 - Adding New Process Elements
 - Changing Workflows
 - Validating & Publishing the Process

 - **MSF Deployment**
 - Publishing Tailored MSF
 - Integrating with MS-Project
 - Integrating with VSTS (upcoming product)
 - Enacting in Process Automation Tool

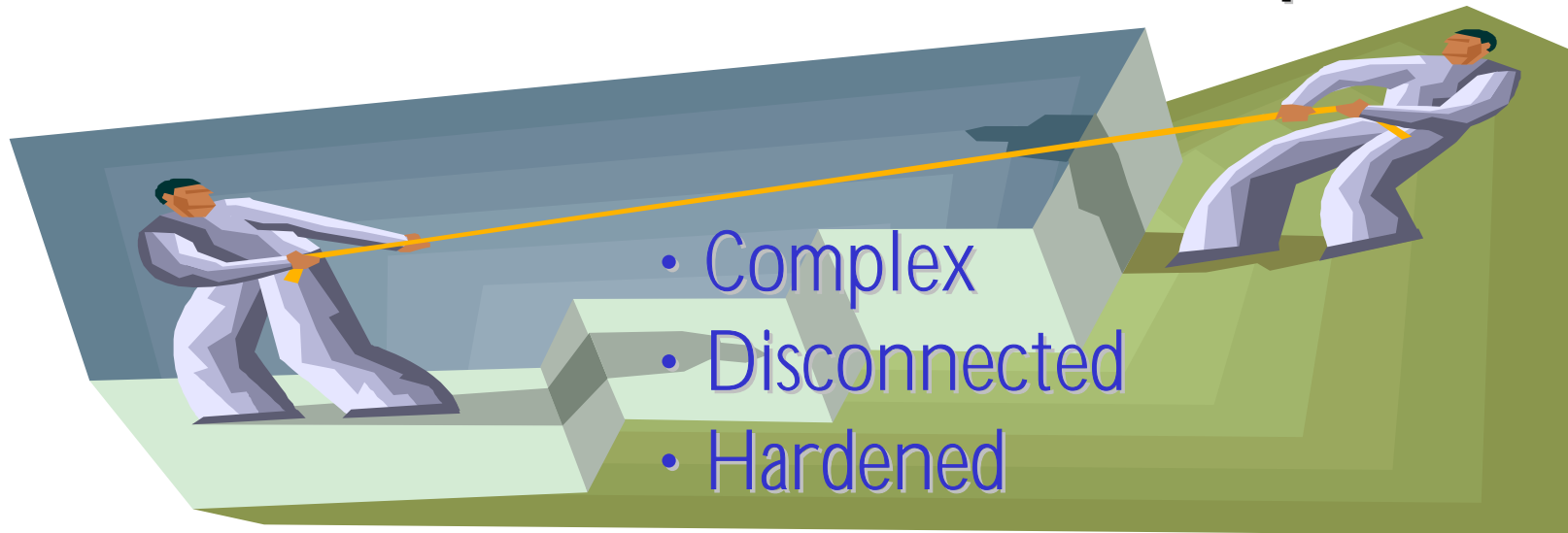
MSF Agile

Granville Miller, Microsoft

The Problem with Process

Productive

**Predictable
Repeatable**



Challenges

- **Getting people to know about it**
- **Getting people to use it**

- MSF offers guidance in how to organize people and projects to plan, build, and deploy technology solutions successfully and effectively

MSF (version 4) is...

The right content for the right person at the right time

- 1. An agile software development process**
- 2. A formal software development process**
- 3. Framework for customers and partners to implement custom software development process**

Agile vs. Formal Philosophy

- **Agile – Process enables people but don't prevent them from reaching their full potential or making mistakes.**
 - **Adaptive**
- **Formal – Process is designed to minimize the potential for mistakes.**
 - **Repeatable**

Principles – MSF Agile

- The core idea behind MSF Agile is that process enables people (both individuals and teams). Too little process and it requires extraordinary people to do ordinary things. Too much process and extraordinary people can't do extraordinary things.

- **Scenario-driven development process for building .NET, Web, Web Service, and other object-oriented applications.**
- **Directly incorporates practices for handling quality of service requirements such as performance and security.**
- **Utilizes a context-driven approach (context-based) to determine how to operate the project.**

- **Composed of 14 basic work streams**
 - **Basic activity building blocks of MSF**
 - **A work stream is an activity that is composed of other activities**
 - **Activities are described using the ETVX format**
 - **Contains 60 activities (not including work streams)**
 - **Most work streams are performed by a single role**

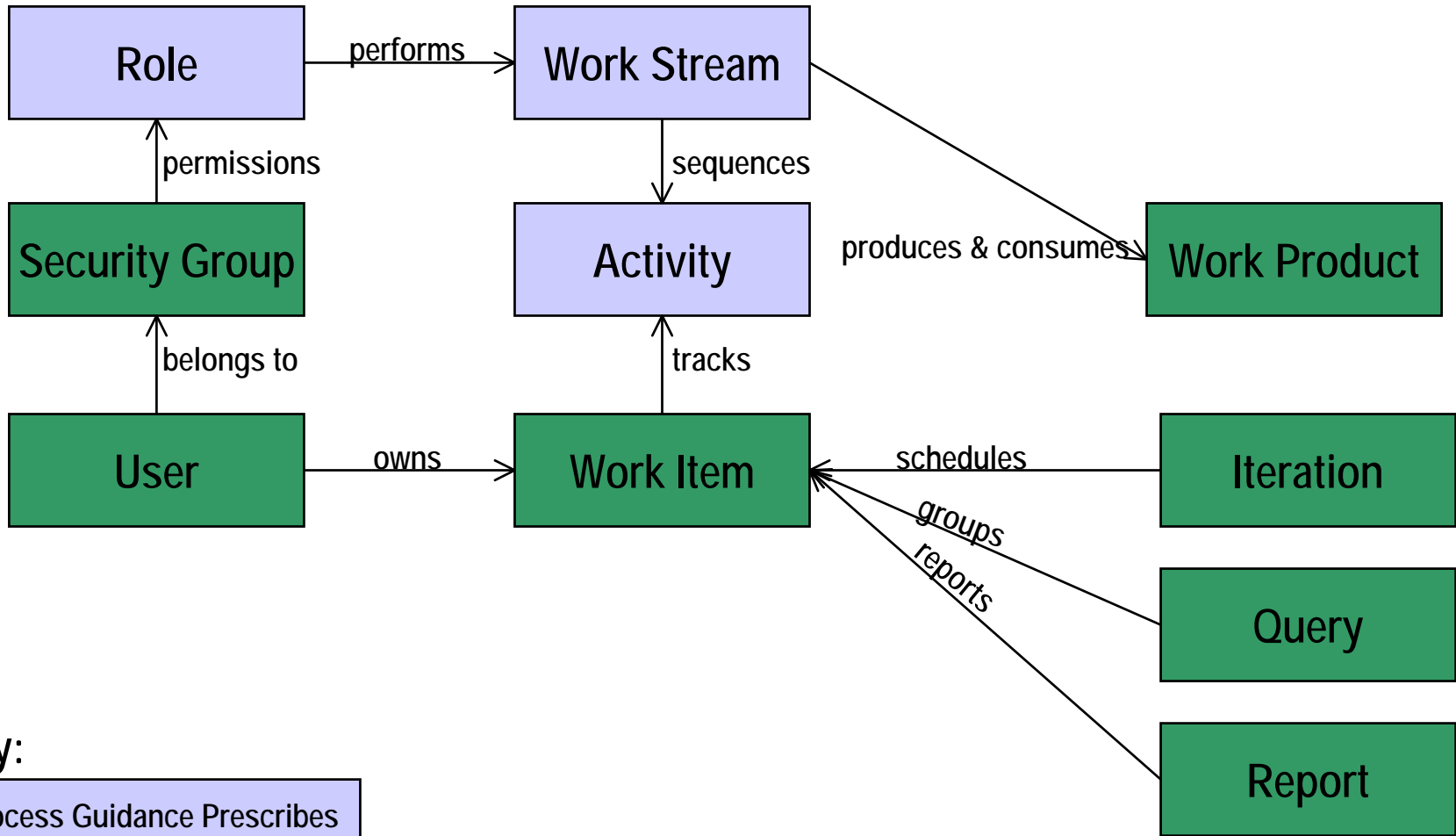
Methods of Adoption

- **Organizational/Team** – The team has decided as a unit to adopt some flavor of MSF (or your process)
- **Grassroots** – Individuals on the team find the practices useful and the process spreads by providing value

MSF provides friction-free usage that doesn't get in the way

- **Framework – Build a process within the MSF meta-model, adopting pieces or all of MSF Agile or Formal**
- **Prototype – Using pieces or all of MSF Agile or Formal as a base to build your own process without the meta-model**

Key Concepts



Key:

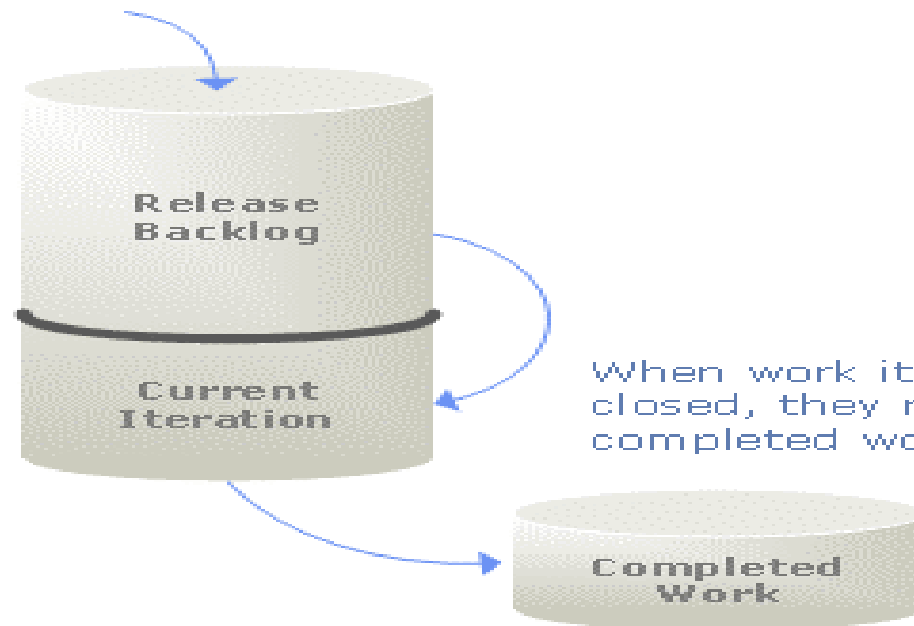
Process Guidance Prescribes

VSTS Enacts

Work Item Database

The release backlog contains everything planned for the project release.

The current iteration is a subset of work items actively tracking the activities of the current project iteration.



When work items are closed, they record completed work.

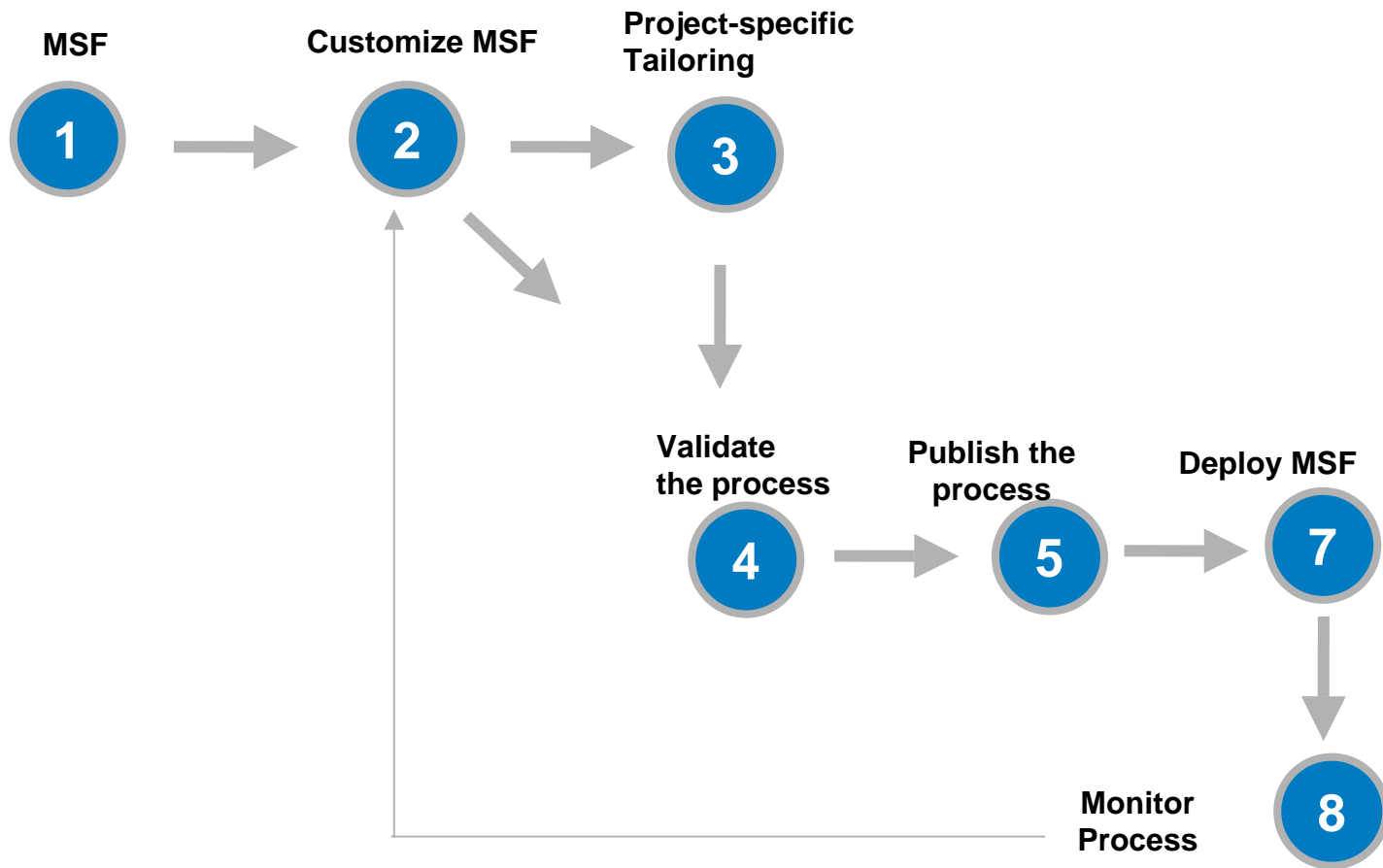
- **MSF is a vehicle for delivering Microsoft's contributions to the software development community**
- **MSF version 4.0 comes in two flavors to deliver maximum flexibility**
- **MSF updates will be delivered via MSDN**
- **MSF can become a basis for your software development process**

Microsoft[®]

Tailoring and Automating MSF Processes

Sammy Wahab, Osellus Inc.

Tailoring and Deploying MSF



- **Process based on MSF 3.1**
 - **Formal Methodology**
 - **Combination of Waterfall & Spiral**
(milestone-based development)

- **Process based on MSF 4.0 (Agile)**
 - **Agile methodology**
 - **Iterative development**

Published MSF Process

(using Internet Explorer)

Scenario:

Need for Requirement Traceability to support CMMI.

Changes to the existing Process Model

- **Add a WorkProduct called “Requirement Traceability Matrix”**
- **Add a template (spreadsheet) (Guidance)**
- **Add a new Activity called “Update Requirements Traceability Matrix”**
- **Alter the Workflow of the process**

MSF Tailoring using IRIS

(using IRIS)

MSF Deployment Options

- | | | | |
|----------|---|---|------------------|
| 1 | Process Dissemination (Integrated web-site, PDF, Word) | } | Manual |
| 2 | Project Management Tools (MS-Project) | | |
| 3 | Process Automation Tools (IRIS) | } | Automated |
| 4 | Integrated with IDE Tools (Visual Studio Team System) | | |

Project Management

(Using MS-Project)

Process Management

(Using IRIS)

Integration with IDE

(Using VSTS Screen shot)

Portfolio Explorer

- vsx1
 - My Favorites
 - Kamal_ActivityWIT
 - Work Items
 - Public Queries
 - All Requirements
 - All Work Items
 - My Active Work Items
 - My Work Items
 - Private Queries
 - Reports
 - Documents

Activity 139* Activity 138* All Work Items - Results*

Title: Code Review Close By:

Area: \Kamal_Activity\WIT

Summary Detail Scheduling Activity Information

Priority: Medium Assigned To: kamal

Input and Outputs Guidances

WorkProduct	Description	Used in Precondition	Used in Goal	Input	Output	Allowable States
Feature Description Sheet	A detailed description of a feature from a requirements and functionality point of view. Used to help clearly define the features of the product, and to validate the code against later on. Must be approved by Product Management. Standard MSF calls this the "Feature Proposal".			→		
Feature Set	(none)		✓	→	→	coded, reviewed

Description

The objective of the Code Review Activity is to conduct a peer review of the Feature Set code. The review does not need to be formal, with a published agenda and minutes, but it should be held to ensure that someone other than the developer themselves examines the code and verifies that it meets the initial Feature Description Sheet and the organization's coding standards.

Conversation

25/10/2004 2:56:19 PM Edited by (kamal)

25/10/2004 2:53:44 PM Created by (kamal)

- **Presentation**
 - **MSF Agile**
 - **View Published MSF Process**
 - **MSF Tailoring**
 - **MSF Deployment**

- **Key “Take-Aways”**
 - **MSF methodology fits any type of project**
 - **Some level of tailoring is always required**
 - **Deployment of MSF is key**