

**NAV
TECH
DAYS
2013**

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NAV ALM WITH TEAM FOUNDATION SERVER

Luc van Vugt
fluxxus.nl

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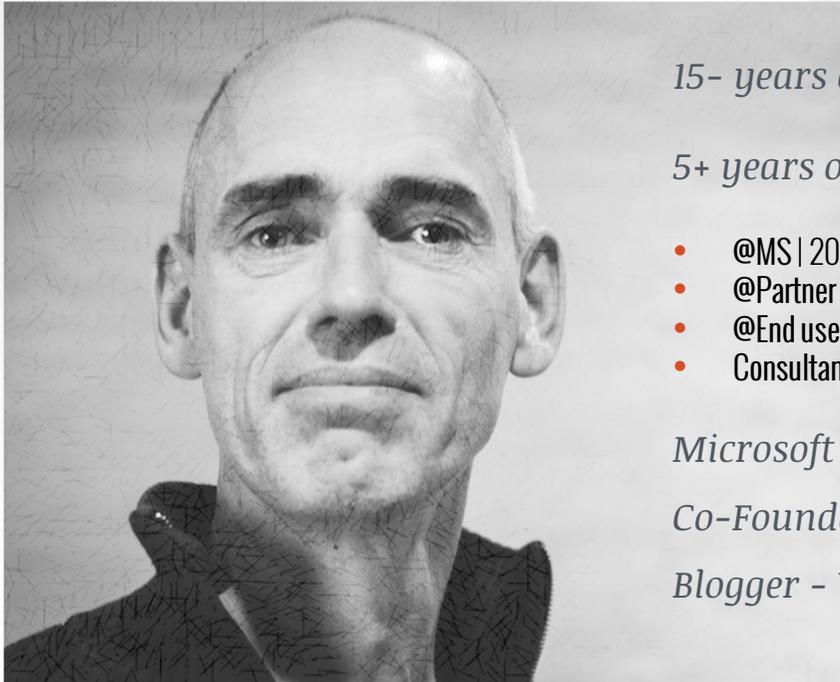
WELCOME

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INTRODUCTION - LUC VAN VUGT



15- years on Dynamics NAV

5+ years on Team Foundation Server

- @MS | 2007-2009
- @Partner | Imtech (NL) - 2009-2012
- @End user | Van Dijk Educatie (NL) - 2013-...
- Consultant | fluxxus.nl - 2012-...

Microsoft MVP Dynamics NAV

Co-Founder and Secretary Dutch Dynamics Community

Blogger - Van Vugt's dynamiXs

Contact

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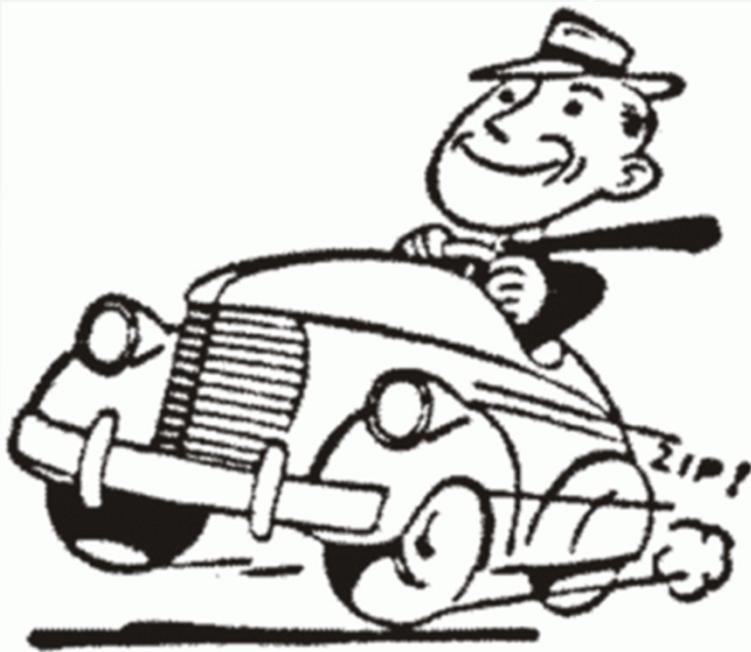
NOW ...

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... WHAT BRINGS ME HERE



... of course ...

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... WHAT BRINGS ME HERE

... seriously ;-)

Being NAV Application developers ...

... Visual Studio Team Foundation Server is too useful a tool not to take advantage of ...

... To help you manage your Code & Product/Project

It's too much fun to let go ...

You can start today :-)

PRESENTATION TARGET

- Share my enthusiasm and maybe “infect” you too
- Show simple basis you can start with tomorrow ...
 - ... and a little bit more
- ... and directly profit from

PRESENTATION TARGET

Hoping for...

- NAV/TFS community to
 - Share and profit from
 - Not reinvent the wheel
- MS NAV Team to step in on this

PRESENTATION ...

... is NOT ...

... TFS course or Blueprint for success

... is ...

.. what I have experienced as (more than) useful and fun to do

WHY USE TFS?

1. *to safeguard source*
2. *to keep history*
3. *to manage releases*
4. *to efficiently & effectively propagate features & fixes*
5. *to have multiple devs working on same project*
6. *to track & trace code changes*
7. *to manage & plan development effort*
8. ...

BEFORE WE MOVE ON

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BEFORE WE MOVE ON - GLOSSARY

- ALM
Application Lifecycle Management
- VS
Visual Studio
- TFS
Team Foundation Server (or Service)
- WI
Work Item

BEFORE WE MOVE ON - BASIC CONCEPTS OF TFS

- Changeset
- Work Item

MY TOP 5

IN OTHER WORDS: SESSION AGENDA

1. *Secure & Refer*
2. *Develop & Fix*
3. *Test & Bug*
4. *Plan & Execute*
5. *Branch & Merge*

DEMO CASE

- Seminar Registration
 - aka C/SIDE Solution Development case
- Team fluxxus.nl
 - Luc van Vugt
 - Klaas de Goedheilige
 - Piet de Zwart



DEMO CASE

- Seminar Registration
 - aka C/SIDE Solution Development case
- Team fluxxus.nl
 - Luc van Vugt, “lead” and developer
 - Klaas de Goedheilige, (very) senior developer
 - Piet de Zwart, working horse, uhh, tester



DEMO CASE

Go there and start

Team Foundation Service

Using Team Foundation Service

- free up to 5 users!
- <http://tfs.visualstudio.com>

Team fluxxus.nl

- <http://fluxxus.visualstudio.com>

MY TOP 5

1. *Secure & Refer*
2. *Develop & Fix*
3. *Test & Bug*
4. *Plan & Execute*
5. *Branch & Merge*

#1 SECURE & REFER

MY TOP 5

- Source Control
- History
- Changesets
- Work Items

Case Demo

MY TOP 5

1. *Secure & Refer*
2. *Develop & Fix*
3. *Plan & Execute*
4. *Branch & Merge*
5. *Test & Bug*

#2 DEVELOP & FIX

MY TOP 5

- Developer Isolation
- Get Latest/Specific
- Check-in, Check-out
 - Pending Changes
 - Resolving Conflicts
- Roll-back

Case Demo

#2 DEVELOP & FIX CHALLENGES

- Code stored in .txt object files
- Date/Time property
- Captions (when going international)

MY TOP 5

1. *Secure & Refer*
2. *Develop & Fix*
3. *Test & Bug*
4. *Plan & Execute*
5. *Branch & Merge*

#3 TEST & BUG

MY TOP 5

- Test Plan
- Test Case Specification
- Record
- Bug

Case Demo

MY TOP 5

1. *Secure & Refer*
2. *Develop & Fix*
3. *Test & Bug*
4. *Plan & Execute*
5. *Branch & Merge*

#4 PLAN & EXECUTE

MY TOP 5

- Work Items
- Product Backlog (Scrum)
 - Requirements
 - Bugs
- Sprint Backlog (Scrum)
 - Design
 - Development
 - Test

Case Demo

MY TOP 5

1. *Secure & Refer*
2. *Develop & Fix*
3. *Test & Bug*
4. *Plan & Execute*
5. *Branch & Merge*

#5 BRANCH & MERGE

MY TOP 5

- Propagating code
- Changesets
- Development, Test, Acceptance and Production (DTAP)
- Branch Strategy

Case Demo

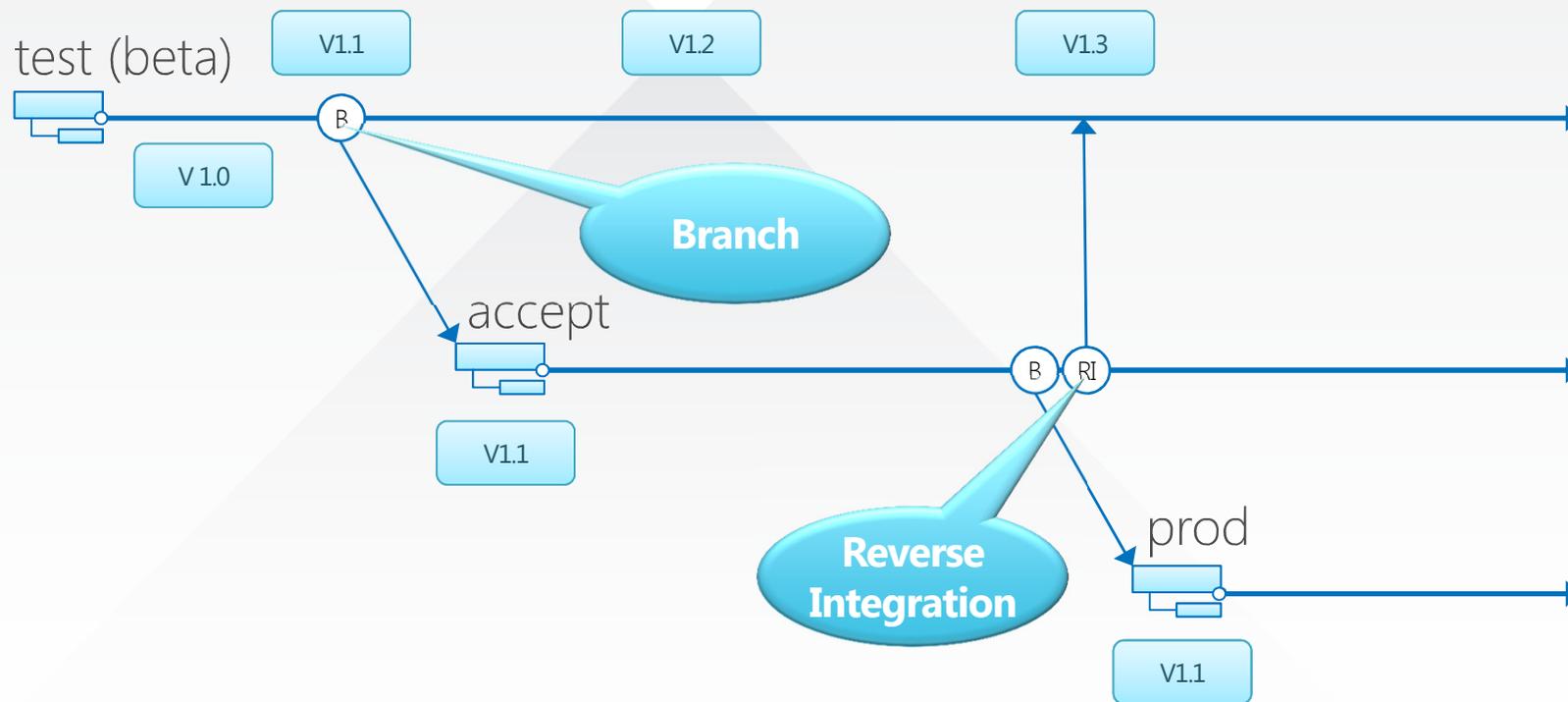
#5 BRANCH & MERGE

BRANCH STRATEGY

- There many strategies
- Go out to VS TFS Branching and Merging Guide and have a look
- For now we consider one for DTAP

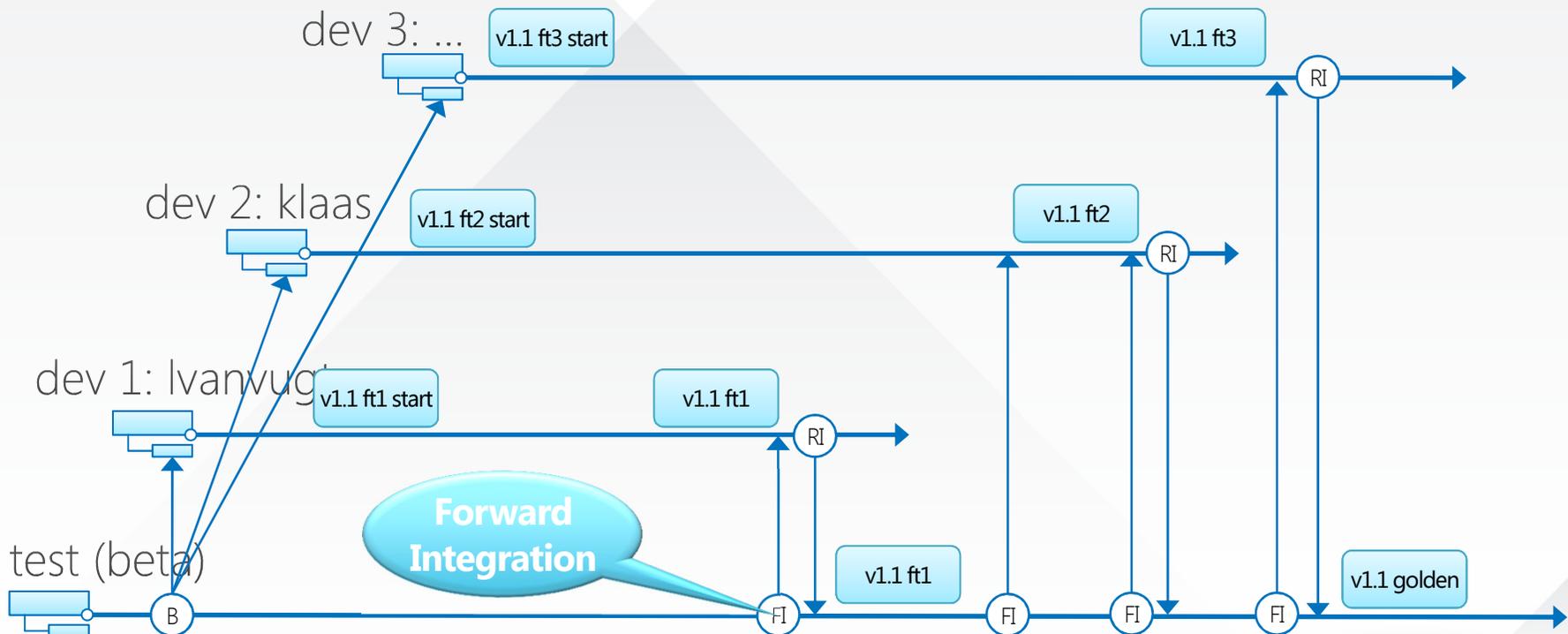
#5 BRANCH & MERGE

BRANCH STRATEGY - END USER SCENARIO



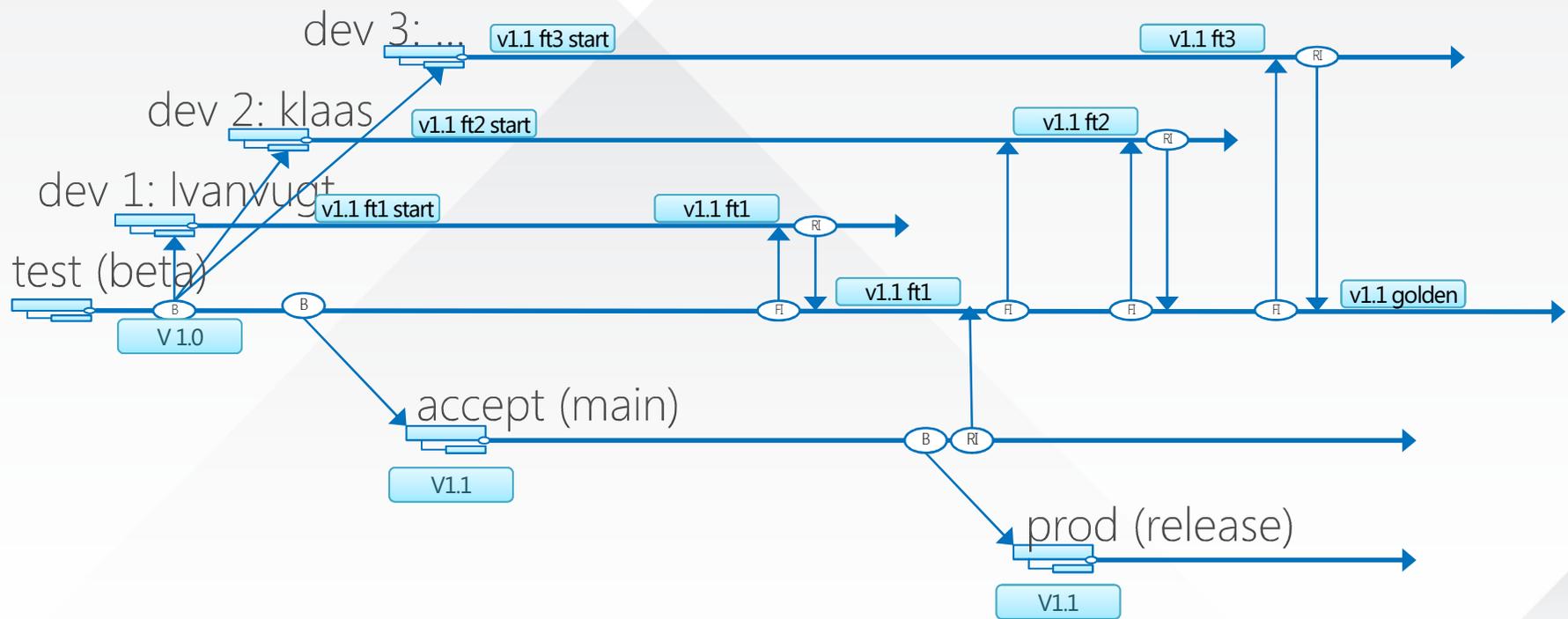
#5 BRANCH & MERGE

BRANCH STRATEGY - END USER SCENARIO (c'ntd)



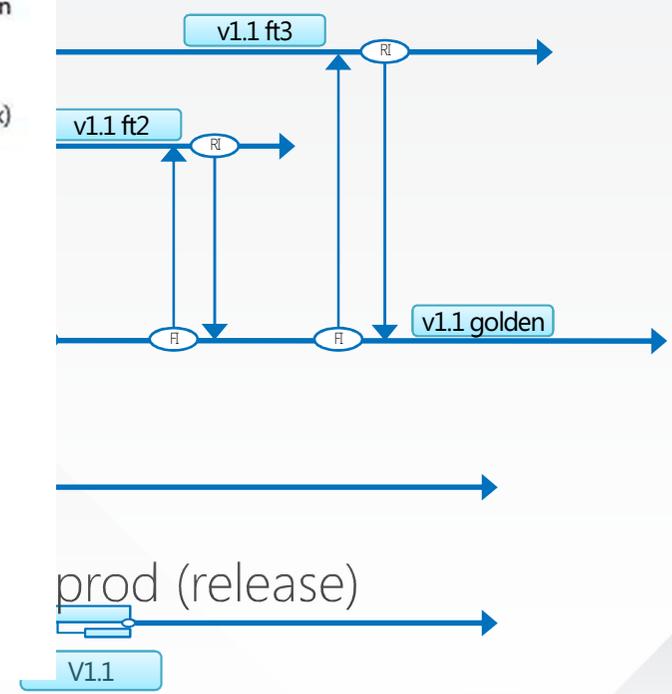
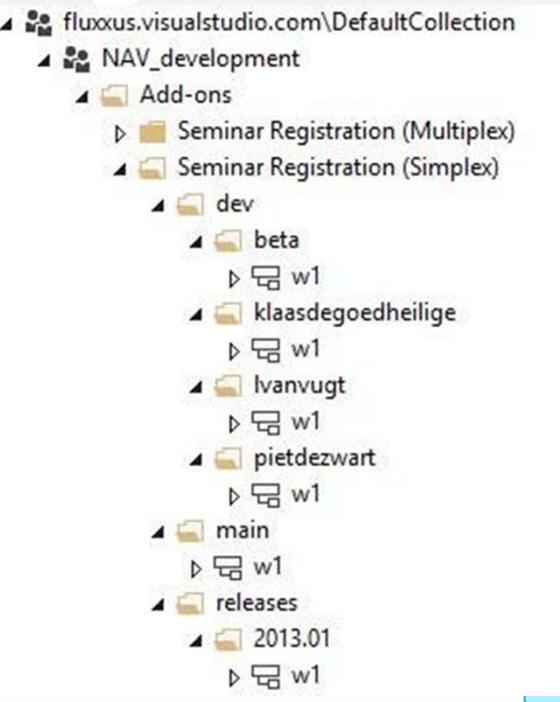
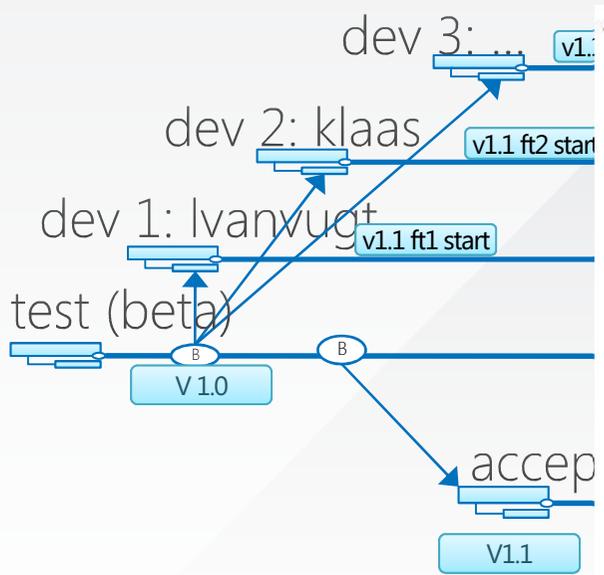
#5 BRANCH & MERGE

BRANCH STRATEGY - END USER SCENARIO (c'ntd 2)



#5 BRANCH & MERGE

BRANCH STRATEGY - END USER SCENARIO (c'ntd 2)



MY TOP 5

1. *Secure & Refer*
2. *Develop & Fix*
3. *Test & Bug*
4. *Plan & Execute*
5. *Branch & Merge*

And more ...

MyWork
Mail Annotate
Shelveset Alert
NAVand.NET Reporting
WebPortal
TeamRoom Storyboarding
Suspend/Resume Query
OfficeIntegration Build
UnitTest
Label
Release
WorkFlow

AND MORE ...

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INTERFACING TOOLS

Object Manager Advanced

- by IDYN
- <http://www.idyn.nl/products/objectmanageradvanced.aspx>
- Using TFS as code repository
 - source control

INTERFACING TOOLS

Revision

- by iFacto
- <http://www.ifacto.be/en/solutions/revision>
- Using TFS as code repository
 - source control

INTERFACING TOOLS

Team Foundation Server Integration Solutions for Microsoft Dynamics NAV

- by To-Increase
- <https://www.to-increase.com/cross-industry-solutions/bis-nav/tfs-integration.aspx>
- Using TFS as central development system
 - source control
 - planning
 - test
 - build

OTHER ALM TOOLS

- GIT
 - Accessible through Visual Studio
 - <http://msdn.microsoft.com/en-us/library/hh850437.aspx>
- Eclipse
 - Accessible through Visual Studio
 - <http://eclipse.org/>
- Perforce
 - <http://www.perforce.com>

MY REFERENCES

VS TFS related

- TFS Team blog
<http://blogs.msdn.com/b/visualstudioalm/>
- Team Foundation Service
<http://tfs.visualstudio.com/>
- VS TFS Branching and Merging Guide
<http://vsarbranchingguide.codeplex.com/>
- Application Lifecycle Management with VS TFS
<http://msdn.microsoft.com/en-us/library/fda2bad5.aspx>
- Brian Keller
<http://blogs.msdn.com/b/briankel/>
- Brian Harry's blog
<http://blogs.msdn.com/b/bharry/>

NAV related

- Agile.NAV blog
<http://agilenav.wordpress.com/>
- Soren's blog
<http://mibuso.com/blogs/sorenk>
- Van Vugt's dynamiXs
<http://www.fluxus.nl>

FACIT

Even though Visual Studio TFS is

- *not NAV aware*
- *not integrated with NAV*

It can help out on many aspects of NAV ALM

Any Questions?

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THANK YOU

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COFFEE BREAK

see you back in 30 min.

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