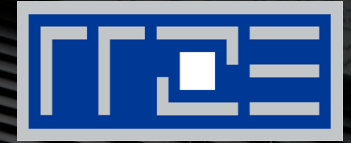


REGIONALES RECHENZENTRUM ERLANGEN [RRZE]



Rollout von Windows 10

RRZE-Campustreffen, 17.11.2016

S. Schmidt, RRZE



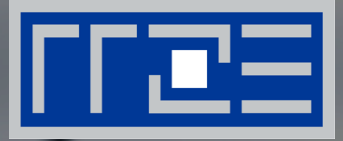
MICROSOFT UPDATES



Neue Strategie bei den Windows
Sicherheits-Updates & Feature-Upgrades



MICROSOFT UPDATES



Windows 7

Windows 8.1

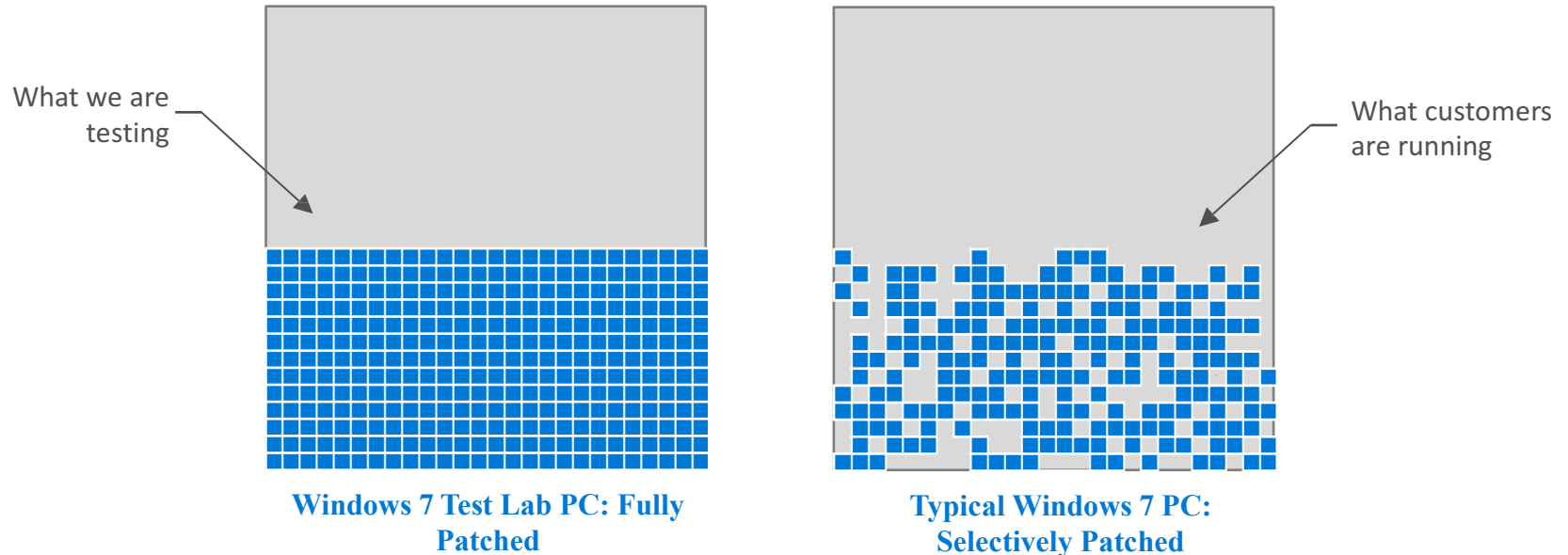
Windows Server 2008 R2

Windows Server 2012

Windows Server 2012 R2

Individual updates add complexity and cost, increase fragmentation, and reduce quality

Windows 7 has had 4,000+ updates since SP1 released. Over 600 of those updates were never widely distributed



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September

2nd Tue

3rd Tue

9B

9C

Security1

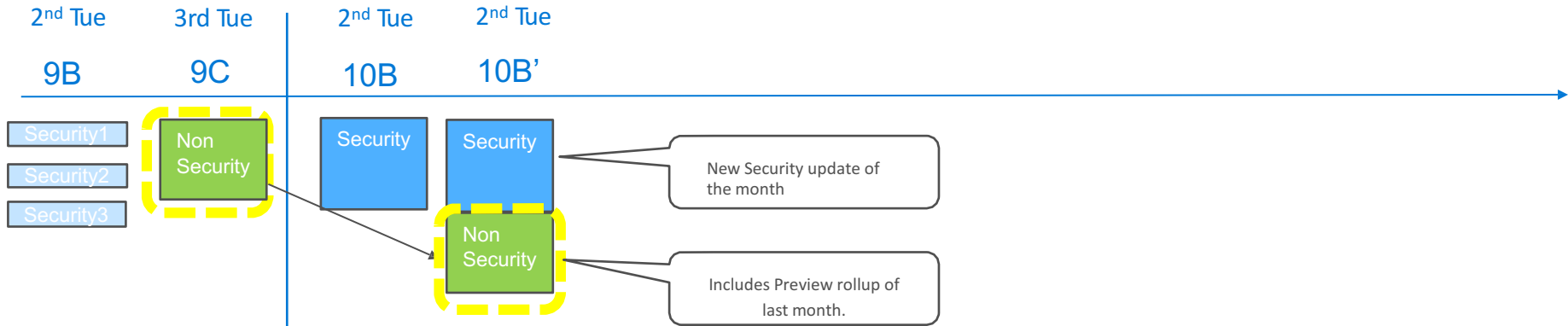
Non
Security

Security2

Security3

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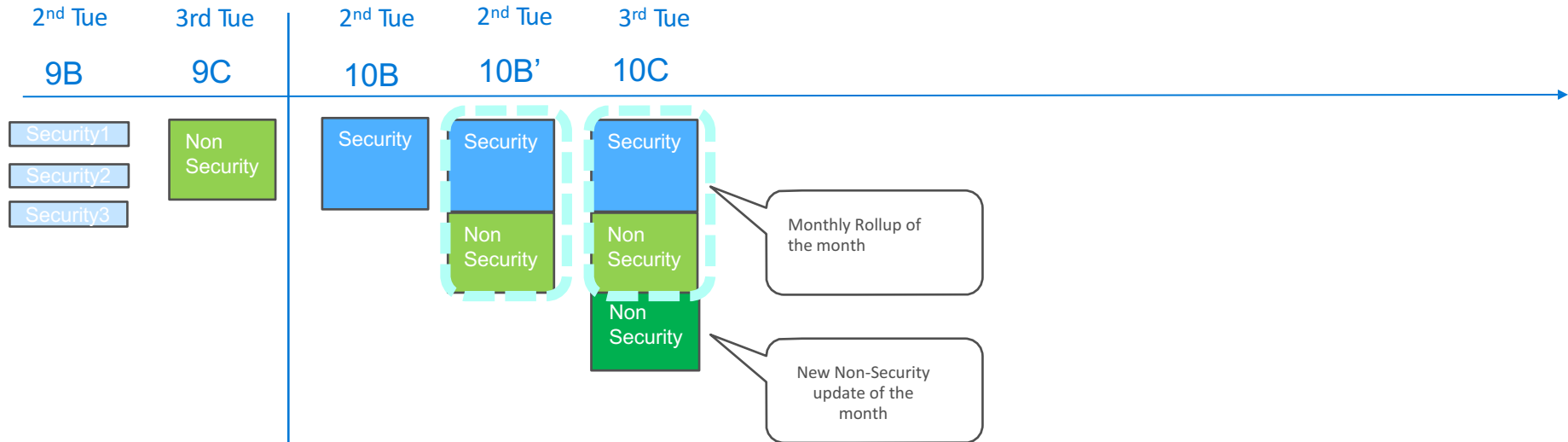
October 2nd Tuesday (Patch Tuesday)



B : Security only Update
B' : Monthly Rollup
C : Monthly Rollup Preview

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October 3rd Tuesday



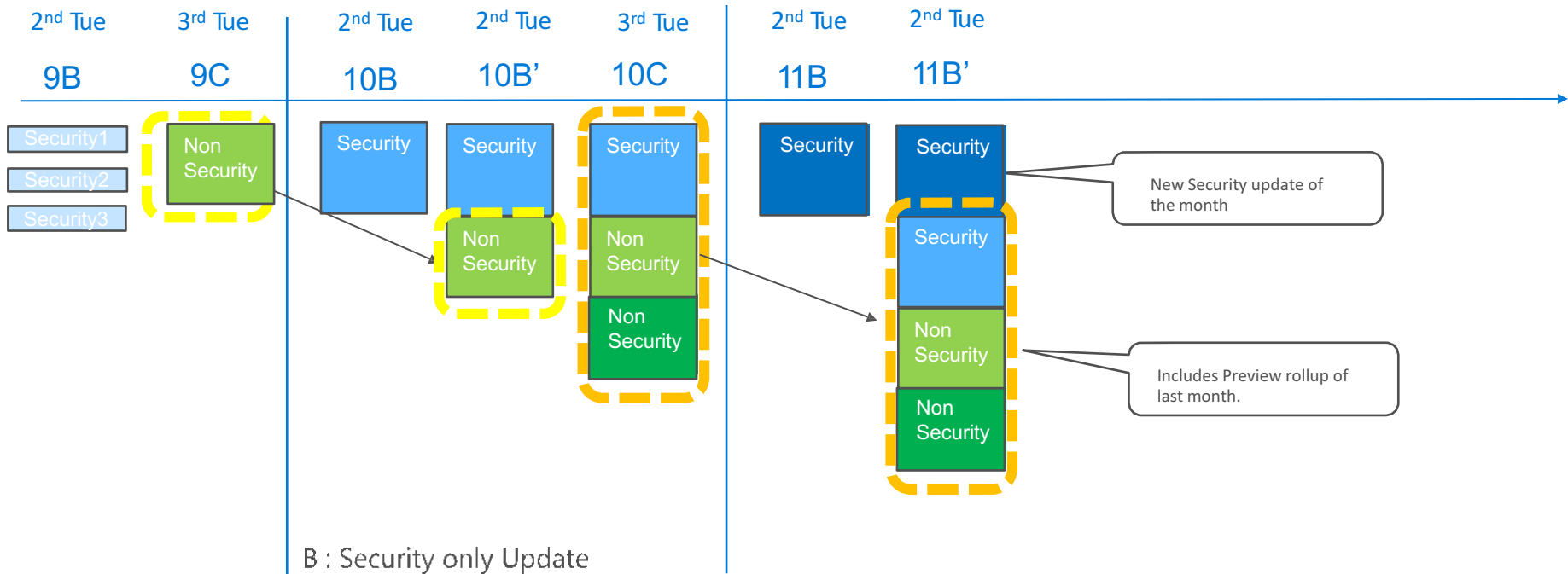
B : Security only Update

B' : Monthly Rollup

C: Monthly Rollup Preview

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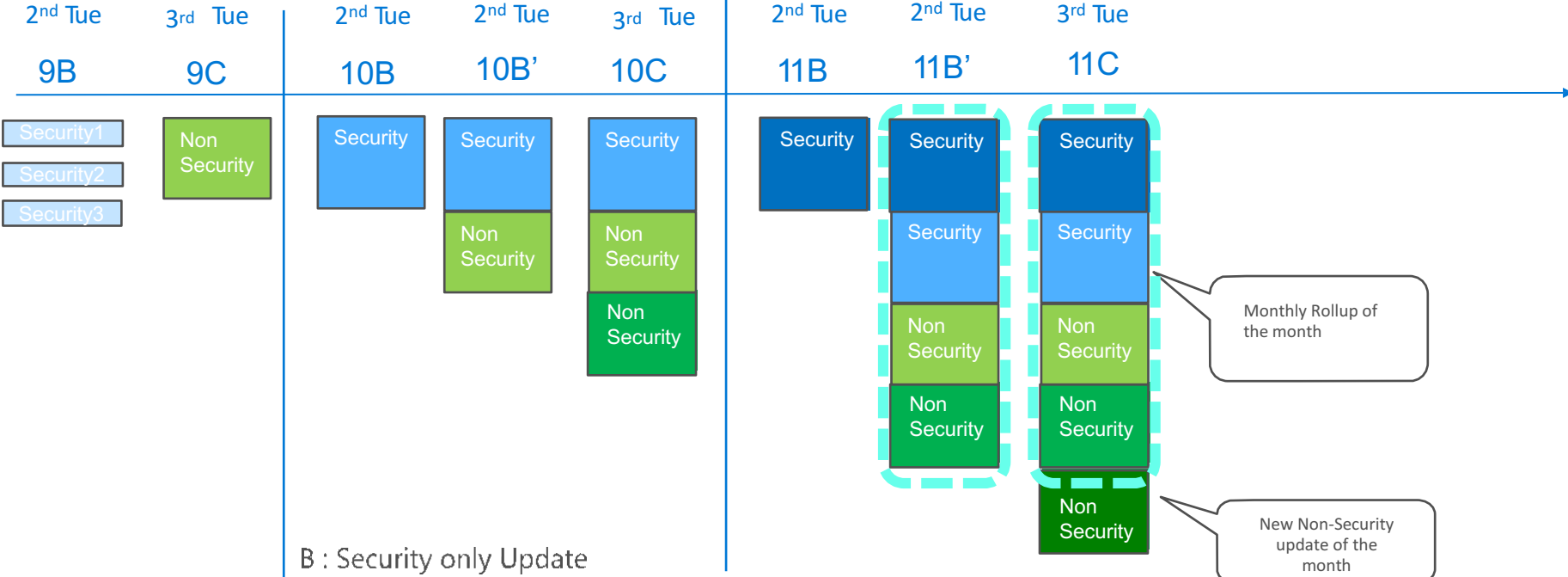
November 2nd Tuesday (Patch Tuesday)



B : Security only Update
 B' : Monthly Rollup
 C : Monthly Rollup Preview

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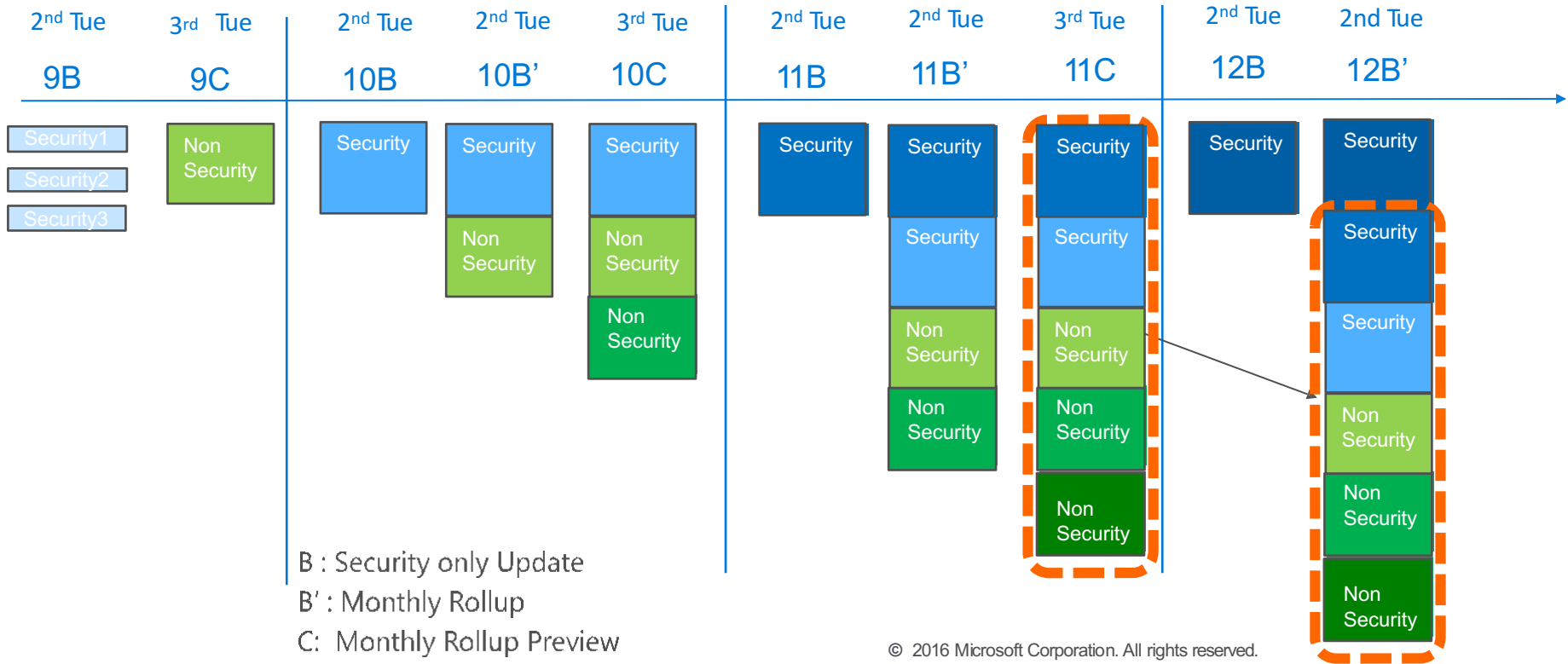
November 3rd Tuesday



B : Security only Update
 B' : Monthly Rollup
 C: Monthly Rollup Preview

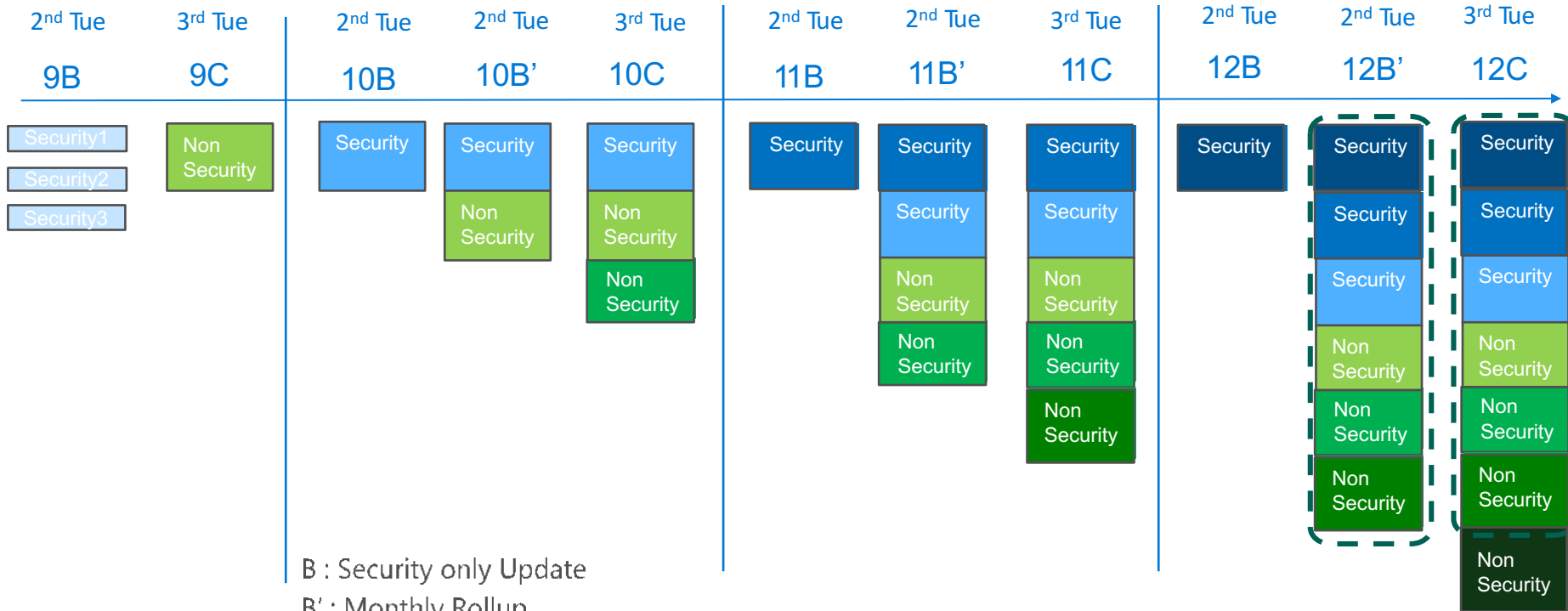
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December 2nd Tuesday (Patch Tuesday)



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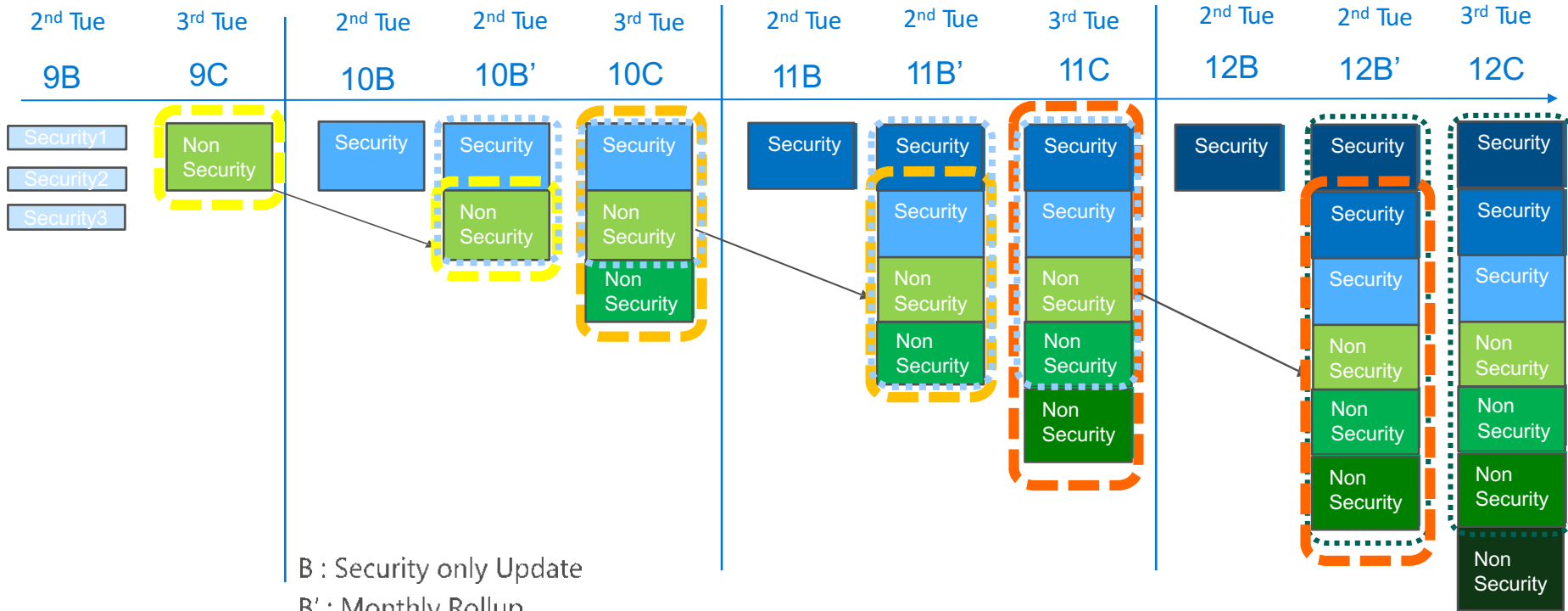
December 3rd Tuesday



B : Security only Update
 B' : Monthly Rollup
 C: Monthly Rollup Preview

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Overview of update sequence



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Proactive evolution of the monthly rollout



May – Sept 2016

Oct 2016 – Jan 2017

Feb- June 2017

July 2017 – End of Support

Create the rollout

New fixes are rolled up together into a single package

Month over month additions

Previous month's fixes are also included.
Example: September package would also include all new fixes and all August fixes

Including older fixes

Proactively include previous content

1. Security GDRs
2. Non-Security GDRs
3. Hotfixes by area

Continue shipping

Continue shipping all* previous fixes and new fixes each month. Only 1 update required to get current

CONTENT IN THE ROLLUP

PHASE * There will be a few hotfixes that can't ship widely due to their content (example: microcode changes)

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What components are included in rollups?

- **Included:**

- Windows components (Kernel mode drivers, services, roles and features such as Active Directory, IIS, DNS)
- Internet Explorer
 - Internet Explorer 11 on Windows 8.1 is planned to be part of Windows rollup starting Oct 2016.
 - We are working on including Internet Explorer 11 on Windows 7 in later Monthly Rollups.
 - no "Upgrade to newer version" will be included)
- Some of Security Updates provided through Advisories (such as Kernel mode Drivers)

- **Not Included:**

- Adobe Flash
- Silverlight
- .NET (.NET will be updated through .NET Monthly Rollup)
- Office, Exchange and other MS products updates
- Some of Security Updates provided through Advisories (such as crypto enhancements)

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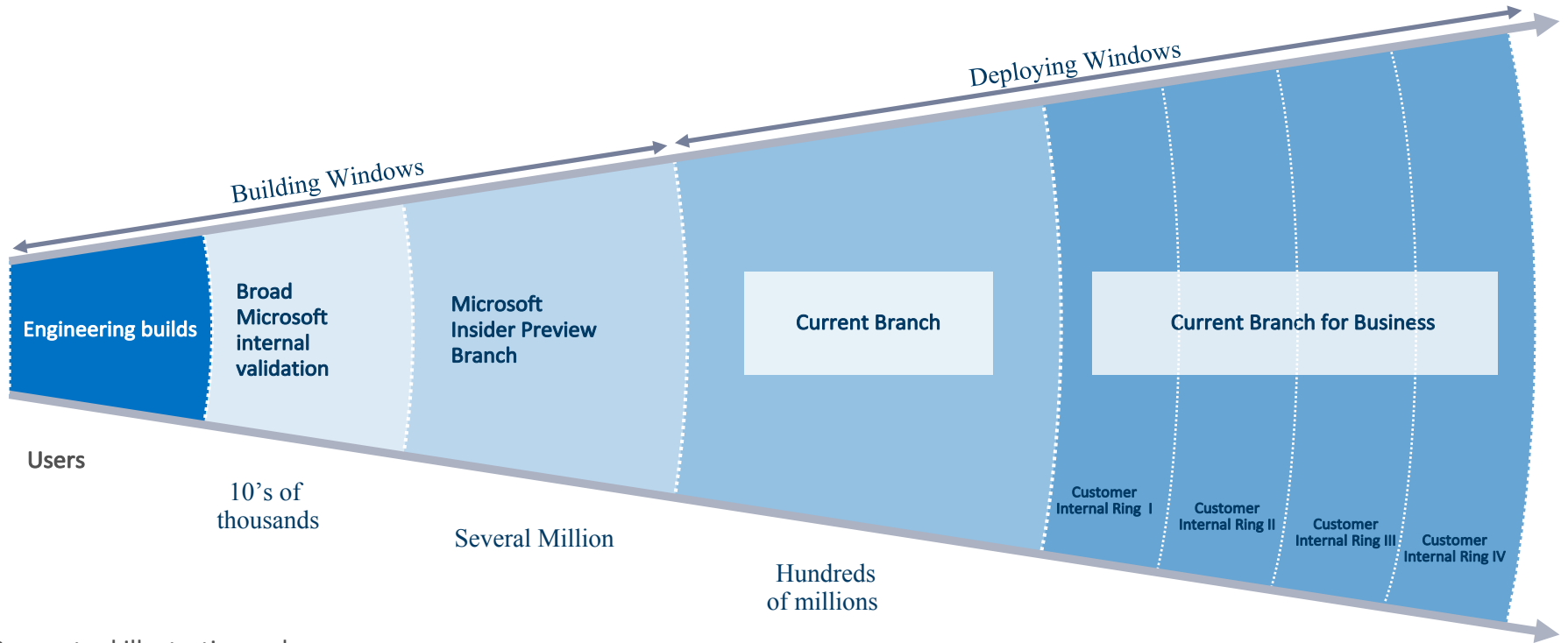


MICROSOFT UPDATES



Windows 10 Updates und Upgrades

Windows as a Service Branches



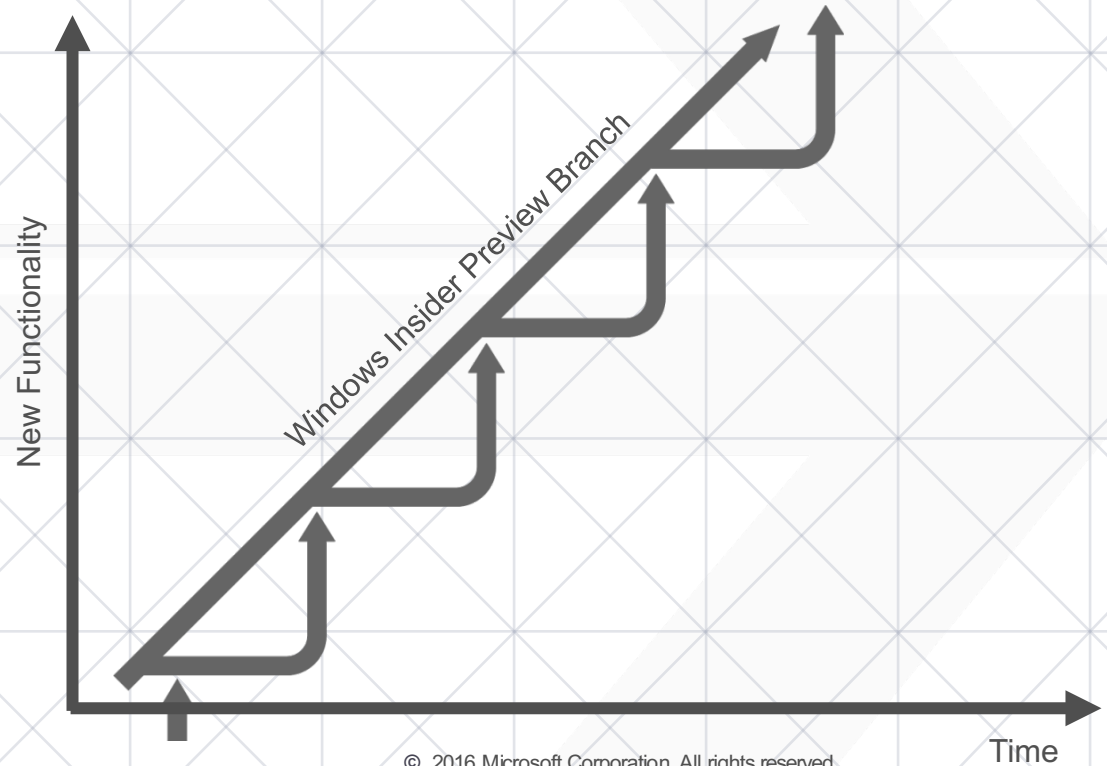
*Conceptual illustration only

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Current Branch

Customer Experience with Windows Update

- Features are released to broad market
- Customers are up to date with features as they are released after broad preview validation
- Opportunity for enterprises to test and validate new features
- Security updates and fixes are delivered regularly



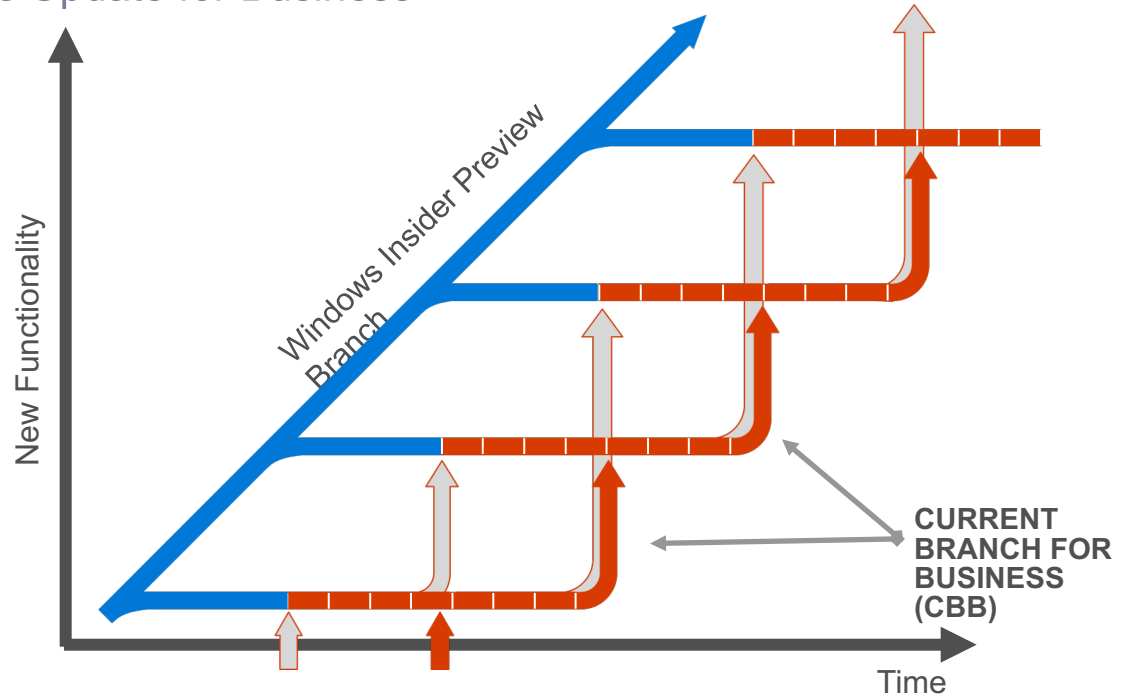
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Time

Current Branch for Business

Customer Experience with Windows Update for Business*

- Business customers can start testing as soon as preview features are released via Windows Insider Program
- Business customers can wait to receive feature updates for an additional period of time, testing and validating in their environment before broad deployment
- Within the deferral period, you can flight these features and updates in your organization and provide feedback
- Security updates and fixes are delivered regularly

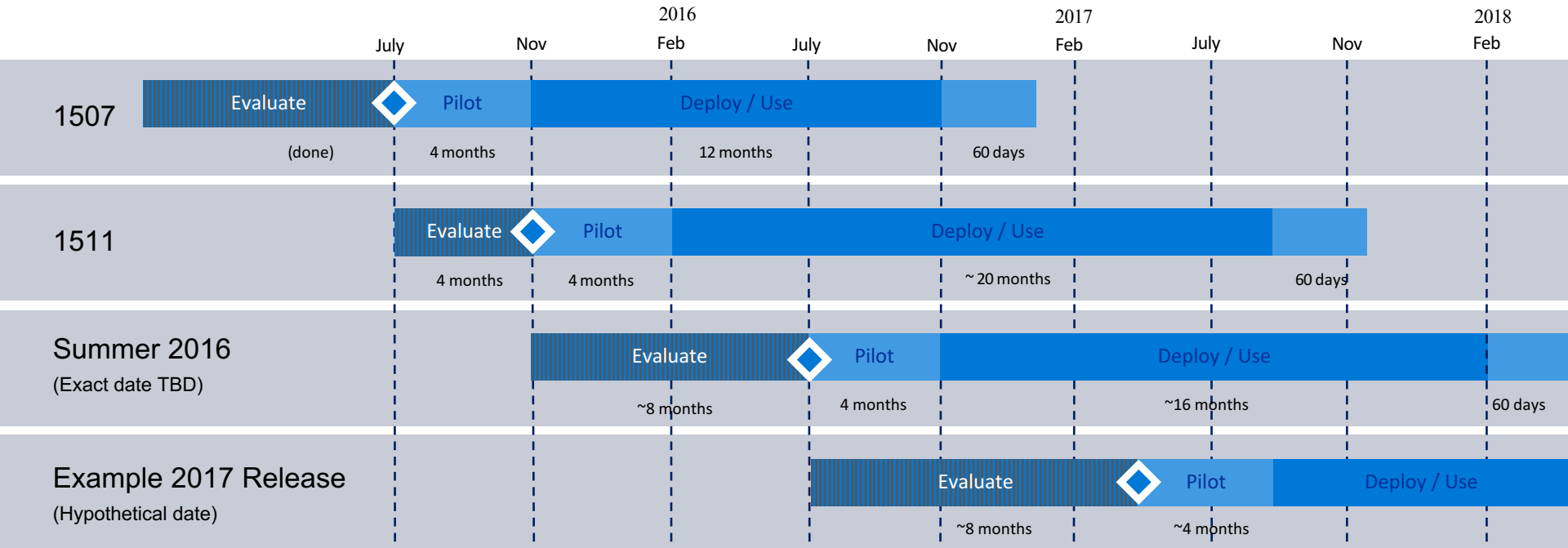


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*Customers can also use WSUS for managing delivery updates

Windows as a service: Establishing a rhythm

Two releases supported in market

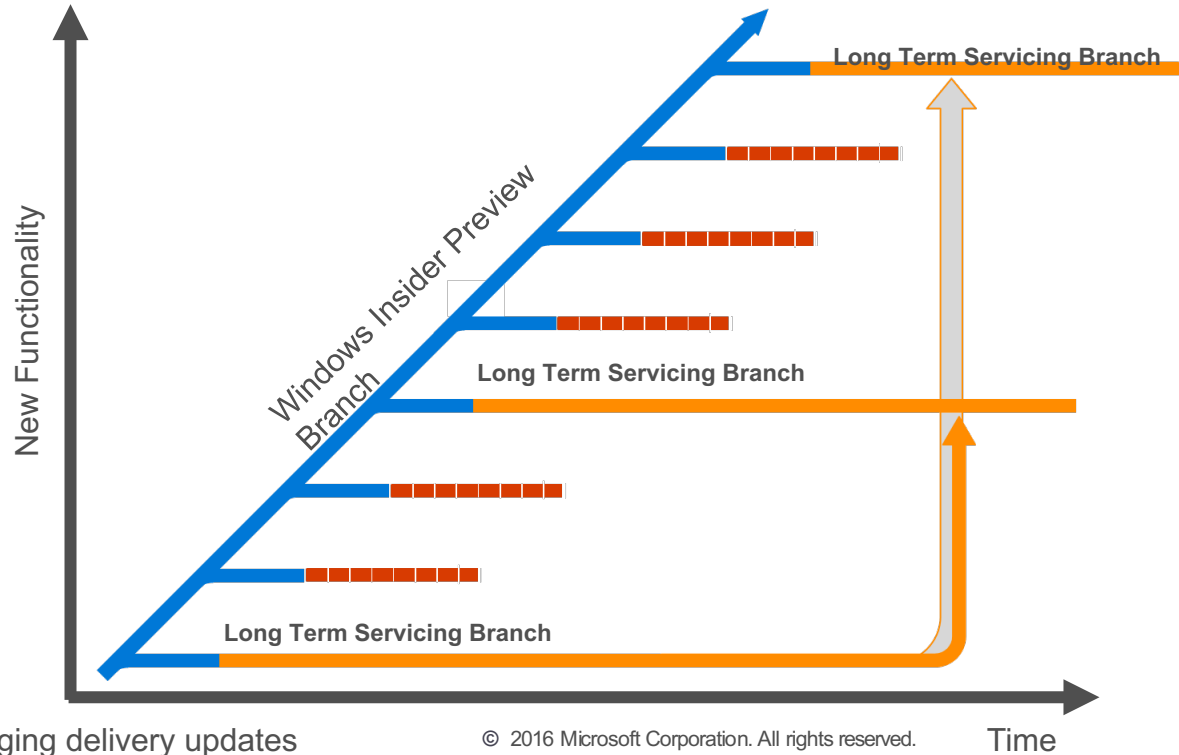


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Long Term Servicing Branch

Customer Experience with Windows Update for Business*

- Security updates and fixes are delivered regularly
- Customers on Long Term Servicing Branch receive security and critical fixes only for ten years
- Customers can move from one Long-Term Servicing Branch to the next one via in-place upgrade and can skip one Long-Term Servicing Branch as well
- Customers manage updates via WSUS



*Customers can also use WSUS for managing delivery updates

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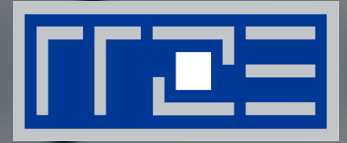
Time

Long Term Servicing Branch

- Version für Industrieanwendungen
 - Krankenhäuser
 - Labore
 - Maschinensteuerung
- Kein Upgrade möglich
- Nicht jede Hardware wird unterstützt
- Nicht alle Features enthalten



PRAKTISCHE UMSETZUNG FAUAD



Neue WSUS Gruppen Current/Next

- FAUCurrent
 - „Current Branch for Buisness“ Windows 10 (Version 1511)
 - Anderen Windows Versionen
 - Windows Server Versionen
- FAUNext
 - „Current Branch“ Windows 10 (Version 1607)

Neue WSUS Gruppen 0/1/2

- FAU-Current0/Next0
 - Updates werden sofort bei Erscheinen freigegeben
 - Ehemals FAU-Test
- FAU-Current1/Next1
 - Updates werden eine Woche nach Erscheinen freigegeben
- FAU-Current2/Next2
 - Updates werden zwei Wochen nach Erscheinen freigegeben
 - Ehemals FAU-All

FAUAD Gruppen für neue WSUS Gruppen

- `fau_wu_facurrent0` > %Präfix%_wu_facurrent0
- `fau_wu_facurrent1` > %Präfix%_wu_facurrent1
- `fau_wu_facurrent2` > Alle PCs der FAUAD per default Mitglied

- `fau_wu_faunext0` > %Präfix%_wu_faunext0
- `fau_wu_faunext1` > %Präfix%_wu_faunext1
- `fau_wu_faunext2` > %Präfix%_wu_faunext2

Benachrichtigung Update Freigabe

IdM > E-Mail > E-Mail-Abonnements > RRZE > Informationen zu Windows-Updates und -Upgrades (FAUSUS-Nutzer)

- newsletter-rrze-windows-updates@lists.fau.de
- Einmal pro Woche bzw. bei Update-/Upgradefreigabe
- Inhalt:
 - MS Updates bis einschließlich 18.10. für alle (fau-current2/-next2)
 - MS Updates bis einschließlich 25.10. für fau-current1 und -next1
 - <https://technet.microsoft.com/en-us/library/security/ms16-oct.aspx>

Testen ist für alle Pflicht!!!

- Updates nur noch kumulativ
→ Einzelne Updates können nicht mehr blockiert werden
- Nur zwei Versionen CBB im Support
 - Produktive PCs mit neuem Windows10 Update/Upgrade
 - Frühzeitige Problemerkennung
- Zeit für das Upgrade einplanen !

Verhalten bei Problemen

- flächendeckende Probleme > Updates werden zurückgehalten
- Update Problem mit Microsoft-Produkten
 - Kontakt mit Windows-Gruppe aufnehmen
 - Windows-Gruppe eröffnet ggf. Fall bei Microsoft
- Update Problem mit Third-Party-Produkten
 - Admin muss selbstständig Hersteller kontaktieren

Windows 10 Support

- Aktuelle CBB-Version von Windows-Gruppe supported
- Vorkonfigurierte Windows 10 GPOs vorhanden (Muster-OU)
- Keine zentrale GPO-Vorgabe → Jeder Lehrstuhl entscheidet selbst
- Skript für nicht FAUAD-Rechner vorhanden



WEITERES WINDOWS-CAMPUSTREFFEN



Microsoft System Center Configuration Manager (SCCM)

- Softwareverteilung mit der FAUAD
- 02. Februar 2017 – 15-17 Uhr

REGIONALES RECHENZENTRUM ERLANGEN [RRZE]



Vielen Dank für Ihre Aufmerksamkeit!

Regionales RechenZentrum Erlangen [RRZE]

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<http://www.rrze.fau.de>