Rollout von Windows 10
RRZE-Campustreffen, 17.11.2016
S. Schmidt, RRZE
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.
October 2nd Tuesday (Patch Tuesday)

- 2nd Tue 3rd Tue 2nd Tue 2nd Tue
- 9B 9C 10B 10B'

- Security1
- Security2
- Security3

- Non Security

- Security

- Non Security

- New Security update of the month

- Includes Preview rollup of last month.

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

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October 3rd Tuesday

2nd Tue 3rd Tue 2nd Tue 2nd Tue 3rd Tue
9B 9C 10B 10B’ 10C

Security1
Security2
Security3
Non Security
Non Security

Security
Monthly Rollup of the month
Non Security
Non Security
New Non-Security update of the month

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

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November 2nd Tuesday (Patch Tuesday)

2nd Tue  | 3rd Tue  | 2nd Tue  | 2nd Tue  | 2nd Tue  | 2nd Tue  |
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B: Security only Update
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November 3rd Tuesday

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Non Security

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December 2\textsuperscript{nd} Tuesday (Patch Tuesday)

B: Security only Update
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December 3rd Tuesday

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Overview of update sequence

- Security
- Non Security

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

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Proactive evolution of the monthly rollup

**PHASE**

May – Sept 2016

**Create the rollup**

New fixes are rolled up together into a single package

**Oct 2016 – Jan 2017**

**Month over month additions**

Previous month’s fixes are also included.

**Example:** September package would also include all new fixes and all August fixes

**Feb - June 2017**

**Including older fixes**

Proactively include previous content

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

**July 2017 – End of Support**

**Continue shipping**

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

*There will be a few hotfixes that can’t ship widely due to their content (example: microcode changes)
What components are included in rollups?

- **Included:**
  - Windows components (Kernel mode derivers, 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)
MICROSOFT UPDATES

Windows 10 Updates und Upgrades
Windows as a Service Branches

*Conceptual illustration only

Engineering builds

Broad Microsoft internal validation

Microsoft Insider Preview Branch

Current Branch

Current Branch for Business

Deploying Windows

Building Windows

Users

10’s of thousands

Several Million

Hundreds of millions

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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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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

*Customers can also use WSUS for managing delivery updates
Windows as a service: Establishing a rhythm
Two releases supported in market

<table>
<thead>
<tr>
<th>Release Date</th>
<th>Evaluation</th>
<th>Pilot</th>
<th>Deployment</th>
<th>Deployment Window</th>
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<tr>
<td>2016 Summer</td>
<td>Evaluate</td>
<td>Pilot</td>
<td>Deploy/Use</td>
<td>~8 months</td>
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<td></td>
<td>4 months</td>
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<td>~20 months</td>
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<td>Evaluate</td>
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<td>Evaluate</td>
<td>Pilot</td>
<td>Deploy/Use</td>
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<td>(Hypothetical)</td>
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<td>~16 months</td>
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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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Long Term Servicing Branch

- Version für Industrieanwendungen
  - Krankenhäuser
  - Labore
  - Maschinensteuerung
- Kein Upgrade möglich
- Nicht jede Hardware wird unterstützt
- Nicht alle Features enthalten
Neue WSUS Gruppen Current/Next

- FAUCurrent
  - „Current Branch for Business“ 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_faucurrent0 > %Präfix%_wu_faucurrent0`
- `fau_wu_faucurrent1 > %Präfix%_wu_faucurrent1`
- `fau_wu_faucurrent2 > 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
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
Microsoft System Center Configuration Manager (SCCM)

- Softwareverteilung mit der FAUAD
- 02. Februar 2017 – 15-17 Uhr
Vielen Dank für Ihre Aufmerksamkeit!
Regionales RechenZentrum Erlangen [RRZE]
Martensstraße 1, 91058 Erlangen
http://www.rrze.fau.de