

SUSE[®] Linux Enterprise Server

for System z - Update

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Date: 01-15-2013



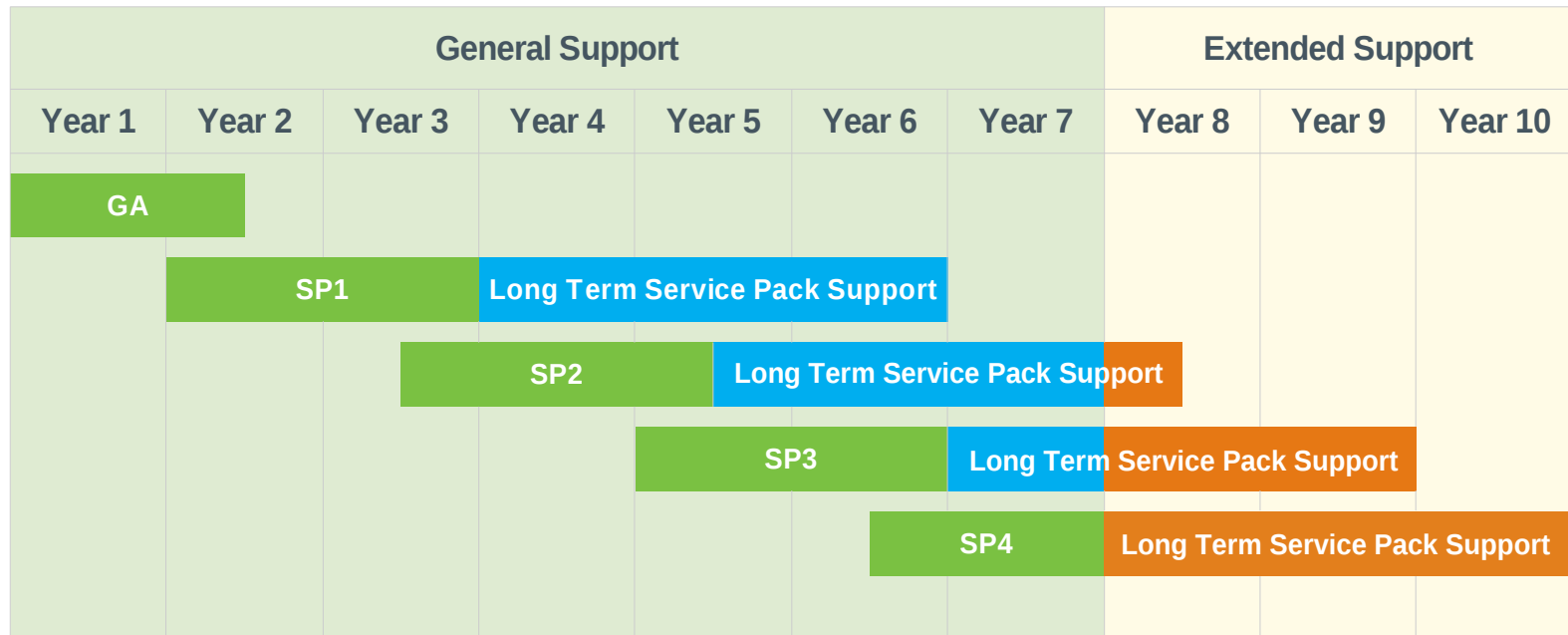
Agenda

- SUSE® Linux Enterprise Server Roadmap review
- SUSE® Linux Enterprise Server 11 SP3 for System z



SUSE[®] Linux Enterprise Server Roadmap review

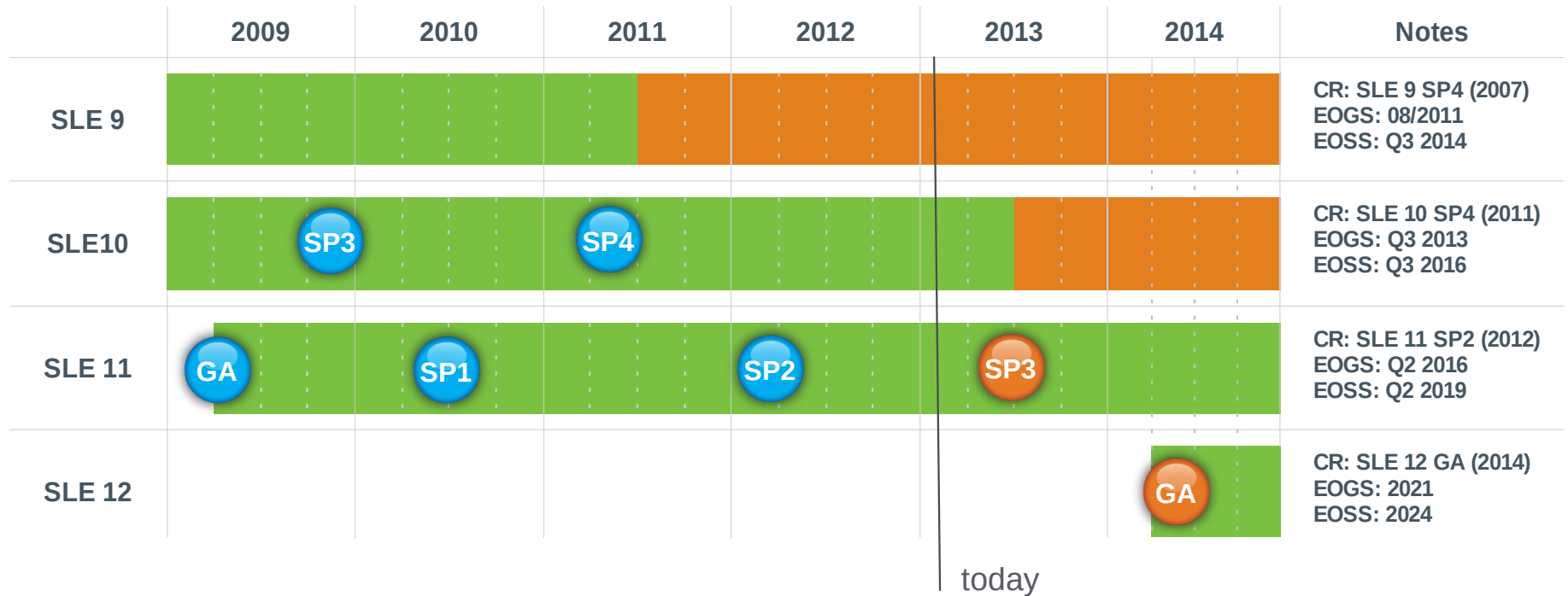
Standard Platform Lifecycle



- 10-year lifecycle (7 years general support, 3 years extended support)
- Service Packs are released every ~18 months
 - 5 years lifetime with
 - ~2 years general support per Service Pack
 - 6 month upgrade window after release of the next Service Pack
- Long Term Service Pack Support (LTSS)
 - Extend upgrade window or extend major release lifecycle



Current Platform Lifecycle



- SUSE announces service pack releases and development and product schedules to customers and partners with dependable release timing
- Predictability for planning rollouts and migrations
- All product lifecycles at <http://support.novell.com/lifecycle>



SUSE[®] Linux Enterprise Server 11 SP3
for System z

SUSE® Linux Enterprise Server 11 SP3

- Contains 1200 new and updated features
- Target Ship Date: June 2013
 - Alpha #2 released December 14th 2012
 - Beta #1 target date is February 14th 2013
- Following slides focus on System z features
 - Many of these features are currently under **non-disclosure agreement** and cannot be fully discussed until February 14th 2013.

Server 11 SP3 for System z

- New Hardware enablement

- 314095 –
- 314244 –
- 314097 –
- 314078 –
- 314128 –
- 314129 –
- 314124 –
- 312255 –

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- z / EC12 performance enhancements

- 314142 –
- 314093 –
- 314089 –
- 314094 –
- 314115 – Cross Memory Attach
- 314242 – Leverage Cross Memory Attach for z
- 314169 – Update SDK with GCC 4.7.x
- 314171 – Backport GCC 4.7.x patches to SDK
- 314087 – Latest version of libdfp \geq 1.0.8

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- RAS enhancements slide #1

- 314098 –
- 314074 –
- 313149 –
- 314126 –
- 311379 – Disk mirroring with real-time enhancement
- 314077 – Two Stage Dumper framework (kdump)
- 313980 – makedumpfile enhancement to provide a strong language construct to erase complex kernel data structure in the dump file

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- RAS enhancements slide #2

- 314436 – LZO Compression of Kernel Dumps
- 314283 – kdump: log-only mode
- 314075 – Enhanced DASD stats for PAV and HPF
- 314091 – [FICON] DASD: Add sanity check to detect path connection error
- 314090 – Latest version of valgrind \geq 3.8.0 (SDK)
- 312912 – Add option to mkdumprd to clean up older initrd's

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- RAS enhancements slide #2

- 314436 – LZO Compression of Kernel Dumps
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- System Management slide #1

- 314086 –
- 314085 – Support for lscpu and chcpu on s390x
- 313767 – sysstat - archive a longer time period
- 310723 – Terminal Server Appliance for z/VM
- 312134 – PXE for SLES for System z (zPXE)
- 313922 – Add scripts to s390x installation media initrd to configure network and installation server(s)
- 313923 – Update the rescue initrd included in the s390x installation media

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- System Management slide #2

- 312041 –
- 312024 –
- 313009 – Enable larger shm segments than 256GB
- 313923 – Update the rescue initrd on s390x media
- 311399 – Efficient snapshot comparison with btrfs
- 312888 – btrfs quota support for subvolumes
- 312751 – snapper: cleanup rules based on free space and/or fill-level
- 313041 – snapper / YaST2 snapper: Create / modify snapshots

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- System Management slide #3

- 313010 – snapper: Role based snapshot / rollback management
- 313860 – snapper: support for LVM thin provisioned snapshots
- 313521 – Define disk order for MD Raid with YaST
- 313903 – Add support for thin provisioning to device mapper kernel modules
- 313904 – Upgrade lvm2 and device-mapper to provide support for thin provisioning
- 308234 – Data de-duplication support (userland)
- 312231 – YaST support for LIO target (iSCSI, FCoE)

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- Security

- 314262 – Provide an openssh package that meets requirements for FIPS 140-2 certification
- 312168 – FIPS 140-2 enable global fips switch for openssl
- 313068 – GSSAPIKeyExchange in openssh
- 312521 – ZYpp transaction auditing
- 314595 –

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- Miscellaneous & Tech Preview

- 311688 – Add IBM Java 7 - SLES 11 SP3
- 313973 – Remove IBM Java 1.4.2 SLES 11 SP3
- 313355 – Set IBM Java 1.4.2 End Of Life

- 310914 – Technology preview: KVM support s390
- 314101 – Technology preview: Support for paravirtualized I/O on s390

Questions?

Thank you.





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