OES 2015
Integration with Partner / 3rd Party Products

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Key features and timelines

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Key Product features

Native support for AD identities in NSS filesystem

- NSS file system now allows AD users to access NSS files natively (by joining AD domain)
- This is an optional feature
- Support for eDirectory users continues to be as before

Large file system support

- Novell NSS file system can now support pools and volumes >8TB in size
- NCP can too. (NCP earlier did up to 16 TB)
- This is an optional feature

Optional SMBv2 support

- OES 2015 now adds support for the SMBv2 protocol stack
- This is an optional feature

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Timelines and callouts

- Authorized Beta in progress
    - Started in Oct 2014
    - On with about 100+ beta sites

- Public Beta slated for late February

- FCS is planned for early summer

- Appreciate if you could have your product(s) qualified and announce support for OES 2015 around the FCS time

- We will provide all necessary support and engagement through our partner and development engineering as needed.

Partner Product Categories & Novell Direction

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OES – Partner Product Categories

Antivirus	Backup & Restore	Information Lifecycle Management (ILM) / HSM
Auditing	Virtualization	iPrint

* The green product categories are our focus in this presentation and which may need some changes or recertification with OES 2015

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So far …

- Most of the NSS file system partner products like Backup, Anti Virus, ILM and Auditing products needed to write to proprietary Novell Interfaces

- These interfaces still exist and have been enhanced over the years.

- Most of interfaces have not changed in OES 2015, with the exception of auditing Interfaces

- For supporting the traditional eDirectory environments and use-cases, no change is needed for most part for Backup and Antivirus solutions.

Going Forward

- Novell is trying to move away from proprietary interfaces

- They will continue to be available and supported

- But the current and future direction is to adopt to the standards

- So that, if you are certified for the underlying SLES platform, then your solution should work with Novell OES, with the exception of auditing

- We encourage even the current consumers of proprietary interfaces to adopt / support the standards based interfaces

- No special development effort is needed to support Novell OES, if you are already certified for the underlying SLES platform

- Some qualification and certification may be necessary.

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Impact to various partner product categories

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Major Areas of change

- xattr structures - The structures now include any AD identities that are present in the file system. Earlier they had only eDirectory identities.
- File System Services (zAPI) - Additional version of the zAPI interface where identities are involved is now available exposing AD identities in addition to eDirectory identities.
- NEB events - Wherever identities are involved new events are published including the AD identities
- VFS Services (_admin interface) – Additional tag added to expose AD identities
- Vigil structures and events & vlog tags – New events that give out both eDirectory and AD identities added. Old events are no longer supported with OES 2015.
- New NCP verbs to support large sized volumes – New API's to support larger sizes available.

Is your product affected ?

- Not affected, If:
  - ➢ Your product uses FUSE / FAnotify infrastructure
  - ➢ If your product uses the xattr interface – but does not interpret the data returned

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AntiVirus

- If your Antivirus product worked on OES11SP2, we expect it to work seamlessly on OES 2015 too

- You are not likely to need any engineering effort towards functionality changes or towards absorbing changes that come with OES 2015

- Only validation / certification would be required

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Backup and Restore using xattr

➢ If you do not interpret NSS specific metadata returned through xattr calls, you will not need any changes. We expect most of the partner backup products to fall in this category

➢ If you interpret the NSS specific metadata returned through getxattr() calls, then you may have to use new NSS metadata structure that comes with OES 2015. For more details, check NDK

Backup and Restore using SMS or File System Services (zAPI)

- There are no SMS interface changes in OES 2015. If your product uses SMS interfaces, you will nee to test and validate that your product works fine with OES 2015

- If your product(s) is using the File System Service interface (zAPI) of NSS, then there is an impact because of the interface and structure changes.
  - Just a recompile is needed if you plan to support only eDirectory identities
  - Some development work is needed if you plan to support AD identities as well

- Please refer to NDK (Novell SDK) for further information

- Going forward we highly encourage you to adopt standard posix interfaces for all Novell file system access.

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ILM / HSM Products

- If your product uses Linux VFS compliant infrastructure like FUSE / FANotify, there will not be an impact.

- On the other hand, if they use xattr or zAPI's the points made for backup are applicable here as well (Refer slides 12 and 13)
  - Un-interpreted xattr data – no change is needed
  - Others – a change is needed

- Please refer to NDK for further details

Auditing

- OES 2015 now supports AD user identities optionally

- This means the audit events from Vigil may have AD SIDs

- If your product uses Vigil events directly, there are changes in event numbers and structures to allow for larger SIDs (compared to smaller GUIDs)

- If you are consuming only VLog events, then the impact will be restricted to the content which will have new tags and information for AD identities

- Unlike other category of products, partner audit products WILL need to change to support OES 2015, because of the above.

- For details refer the NDK.

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