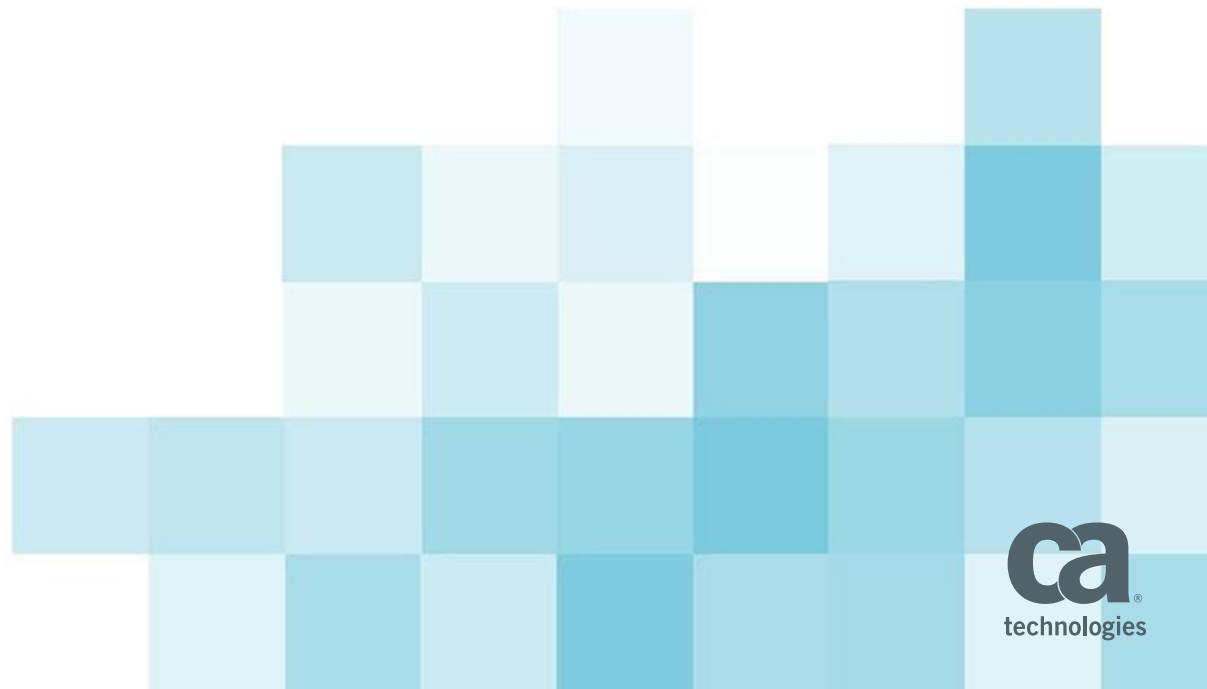


How to Manage a Smooth Upgrade to CA Single Sign-On 12.52

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Why Upgrade

■ New Features

- Enhanced Session Assurance with DeviceDNA™
- Authorization policies based on Risk Score (when integrated with CA Advanced Authentication)
- Identity Mapping
- REST API
- Unlimited Federation including WS-Federation for O365
- Unlimited CA SSO Access Gateway (formerly Secure Proxy Server)

■ More Frequent Bug Fixes

- See the new break/fix strategy at:
https://support.ca.com/phpdocs/7/5262/5262_fixstrategy.pdf

■ End of Service of SiteMinder 12.0

- <http://www.ca.com/us/support/ca-support-online/product-content/status/announcement-documents/2015/ca-siteminder-r12-0-and-ca-siteminder-federation-r12-0-end-of-service-announcement.aspx>

Upgrade Techniques

- In Place
 - Upgrade existing components
- Parallel
 - Install on new systems and integrate new systems into existing infrastructure
- In Place and Parallel can both be done without taking any overall system outages
- Numerous different permutations to do upgrades to meet different requirements
 - Some want to upgrade agents / Some don't
 - Some want to use existing policy store data / Some want to start new

Upgrade Techniques

- Upgrade from 12.0, 12.5 or 12.51 all follow the same procedure
- Upgrade from SM 6 is a different procedure

Things to be aware of

- Custom Code
 - Probably the single biggest challenge to upgrading
 - Have to test custom code with new releases
 - May need to recompile with latest APIs, Compilers, and Java
 - Custom code has to be copied over as an additional step
- Global Delivery Modules
 - Have separate platform support matrices
 - Will typically have some lag for certification on latest releases
 - Your account manager can help you prepare via certification requests if needed
- Parallel upgrades may have additional parameters to change
 - Java, registry, logs, xpsconfig settings need to get added manually
- Tuning parameters may change after upgrading
 - LDAP objectclasses, connection settings

Things to be aware of

- Policy object data integrity
 - If exporting policies out of one environment into another
 - SSO 12.52 does much more data integrity checking than previous versions
 - Integrity issues not a result of the upgrade itself
 - Integrity issues most often is due to old unlinked policies, or referenced agent groups without agents
- Always make sure you have effective backups
- Changes to support matrices
 - What may be supported in an older release may not be supported in a newer release (OS, Web Server, Java, UI App server)
- Encryption keys used to install servers
 - Not needed for in place upgrade
 - Really helpful for parallel upgrades or requires additional steps to change the existing encryption keys

When Upgrading From 12.5 or Older

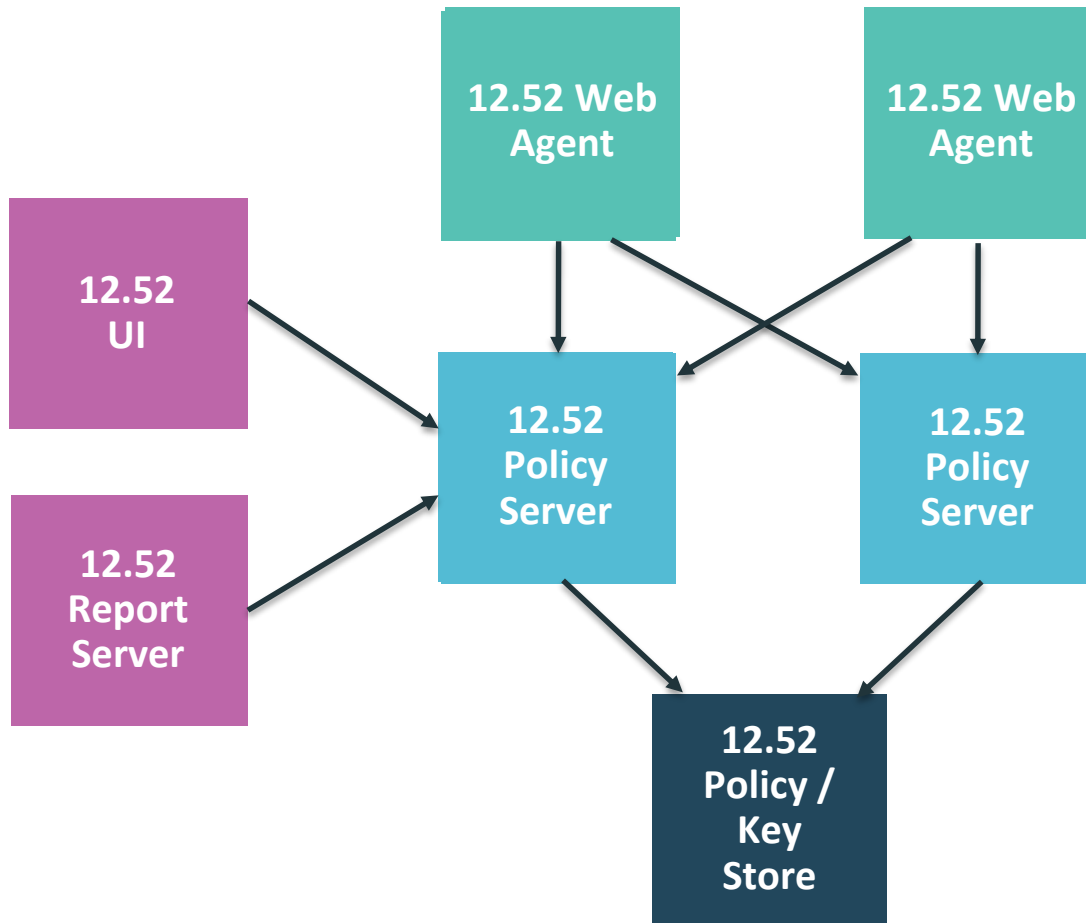
- The Federation key database is now stored in the policy store and not a separate file based key store
- The key database will be automatically upgraded to the policy store when the server is upgraded for in place upgrades
 - For parallel upgrades the key database may have to be manually copied over and the *smmigratecds* command run

Note: Key Database is for federation components and is not the same as the SSO Key Store

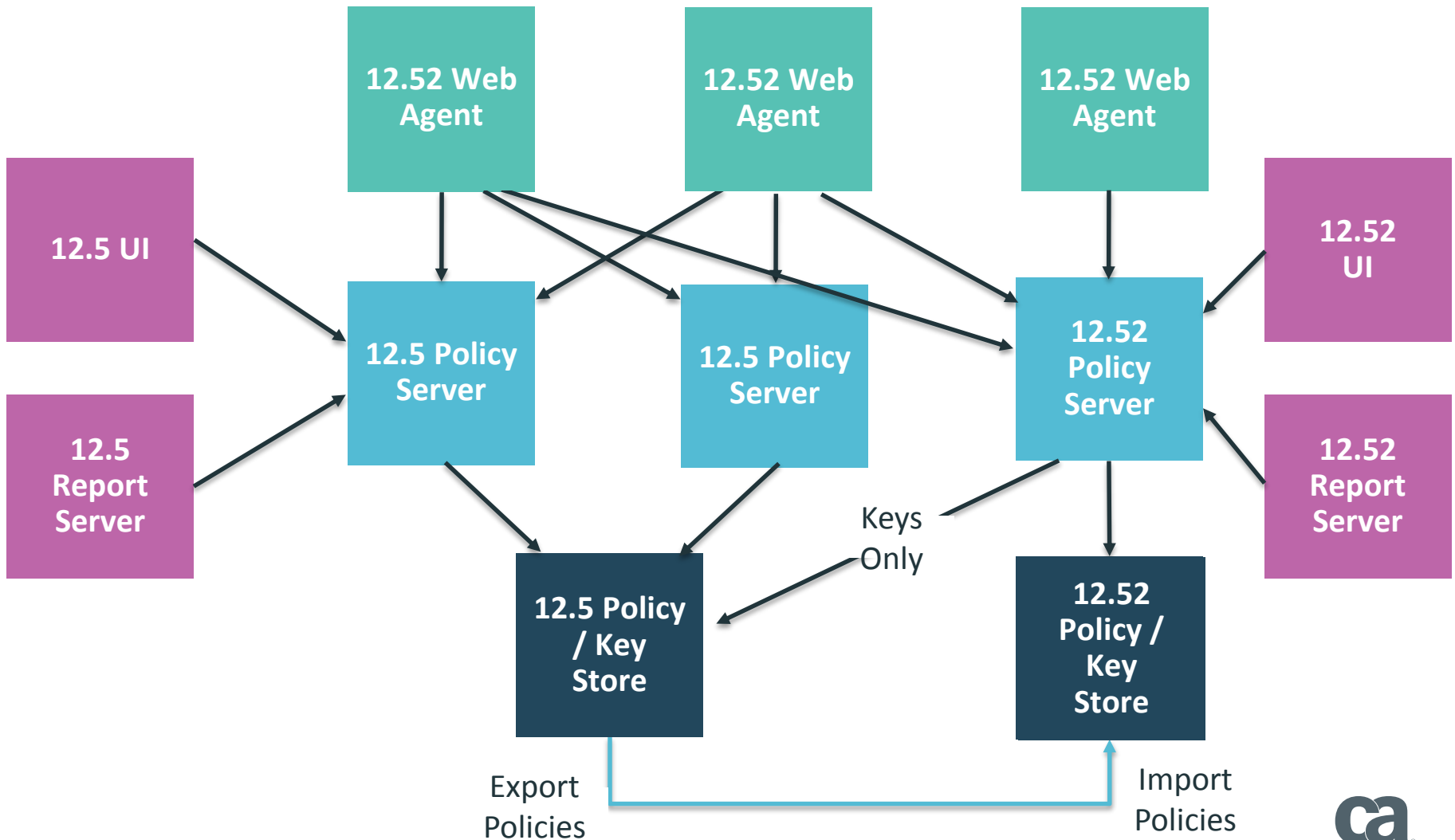
Questions to ask Yourself

- Do I keep the same architecture and policy store data or use a new environment for upgraded components?
- Do I trust my backups for roll-back strategies?
- Do I want to run new SiteMinder/SSO version on newer hardware / operating systems?
- After I upgrade what new features do I want to use?

In Place Upgrade (from 12.x)



Parallel Upgrade (from 12.x)



After the Upgrade

- Review existing settings
- Leverage new functionality
- Plan for more periodic updates
 - Align upgrade strategy with build/release schedule
 - Smaller upgrades typically are much easier than bigger ones

Additional Resources

- Documentation – wiki.ca.com
- Communities site – ca.com/talksecurity
- Support site
 - SSO Product Page
 - <http://www.ca.com/us/support/ca-support-online/support-by-product/ca-single-sign-on.aspx>
 - Proactive Notifications
 - <https://support.ca.com/irj/portal/hyperSubscription>

Q & A

Ask a question...

1. In the WebEx Q&A or Chat windows.
2. Press *6 or #6 to unmute your line.
3. Or... in the CA Security Community!

ca.com/talksecurity

Follow [@CASecurity](#) and [@CA_Community](#) on Twitter!

Join CA Communities!

Visit communities.ca.com to register.

- **LEARN** about best practices and use cases. Lower your TCO and maximize impact.
- **CONNECT** with product management and support. Ask a question or submit an idea for a future release.
- **SHARE** your experience and expertise with other CA customers and partners.

Follow the CA Security Community.

ca.com/talksecurity

Products covered:

- CA Single Sign-On
- CA Identity Suite
- CA Privileged Identity Manager
- CA Secure Cloud
- CA Data Protection
- CA Risk Authentication
- CA Strong Authentication
- CA Directory



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