

BoKS Manager 6.7.1

BoKS Manager 6.7.1 Release Notes

Revision: 8

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BoKS Manager 6.7.1 Release Notes

First published: 2015-12-11 Updated: 2018-12-11

This document contains information about BoKS Manager 6.7.1 from Fox Technologies.

It includes the following sections:

- Important Notes
- Supported Platforms
- End-of-life Information
- What's New
 - SELinux Support on Red Hat 6 / 7
- What's Changed
 - Changes to AD Bridge Function
- Hotfixes Included in This Release
- Fixed Issues
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Important Notes

- All new and modified features, and fixed issues, described in this document are fixed or modified in relation to the release BoKS Manager version 6.7.0.

Supported Platforms

BoKS Manager 6.7.1 is supported on the following platforms:

Table 1: Supported Platforms

Vendor	Platform	Comments
HP	HP-UX 11.11 (v1), 11.23 (v2), 11.31 (v3) for PA-RISC	Server Agent only.
	HP-UX 11.23, 11.31 for Intel Itanium HP-UX nPartitions, Virtual Partitions and Integrity VM	Server Agent only. List of HP-UX virtualization modes tested for the FoxT Server Agent package for HP-UX 11 Itanium
IBM	IBM AIX 7.1, 7.2	
	IBM AIX 6.1	AIX 6.1 requires Service Pack 2 (6100-00 Service Pack 2) or higher
Oracle	Oracle Solaris 11 on SPARC & x64	Oracle Solaris up to and including v 11.3 is supported. Oracle Solaris 11.4 is not supported.
	Oracle Solaris 10 on SPARC, x86 & x64	
	Oracle Enterprise Linux 7 on x64	Server Agent only. Support for this platform is included in the package for Red Hat EL 7.0.
	Oracle Enterprise Linux 6 on x64	Server Agent only. Support for this platform is included in the package for Red Hat EL 6.0.
	Oracle Enterprise Linux 5 on x64	Server Agent only. Support for this platform is included in the package for Red Hat EL 5.0.

Table 1: Supported Platforms

Vendor	Platform	Comments
Red Hat	Red Hat Enterprise Linux 7 on x64	Server Agent only.
	Red Hat Enterprise Linux 6 on x64	
	Red Hat Enterprise Linux 6 on x86, zSeries	Server Agent only.
	Red Hat Enterprise Linux 5 on x64	
	Red Hat Enterprise Linux 5 on x86	Server Agent only.
SUSE from Novell	SUSE Linux Enterprise Server 11 on x64	
	SUSE Linux Enterprise Server 11 on x86 & zSeries	Server Agent only.
CentOS	CentOS 7 on x64	Server Agent only. CentOS 7 support included in the BoKS Manager package for Red Hat Enterprise Linux 7 on x64
	CentOS 6 on x64	Server Agent only. CentOS 6 support included in the BoKS Manager package for Red Hat Enterprise Linux 6 on x64
Cumulus	Cumulus Linux 2.x (Debian-based)	Server Agent only. See the <i>BoKS Manager Debian Release Notes</i> for specifics. This package is available at the Cumulus online repository - please contact your Fox Technologies representative for details.
Debian	Debian 7 on x86	Server Agent only.
Ubuntu	Ubuntu 12 on x64	Server Agent only.

Note: BoKS Manager 6.7.1 should be used together with the management console FoxT Control Center 6.7.0.1.

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End-of-life Information

This release has the following end-of-life schedule:

Support Phase	End Date
Production phase 1 - Feature enhancements, hotfixes and security fixes.	May 31, 2019
Production phase 2 - Critical hotfixes and security fixes.	May 31, 2021
Production phase 3 - Security fixes.	May 31, 2022
Extended Life Phase (after signed agreement).	May 31, 2025

What's New

New features in this release. Note that the features described here are new in BoKS Manager as compared to the BoKS Manager 6.7.0 release.

For more detailed information on each feature, see the *BoKS Manager 6.7.1 Administration Guide* and *Installation Guide*, and where appropriate, BoKS man pages for relevant CLI programs.

Note: The old BoKS Administration GUI is included but is not supported in this release of BoKS Manager.

SELinux Support on Red Hat 6 / 7

SELinux is supported and enabled by default on BoKS hosts running Red Hat 6 / 7. For specifics on the implementation, see the *BoKS Manager 6.7.1 Installation Guide*. The SELinux support on BoKS Manager 6.7.1 includes enhancements and fixes that are not included in hotfix HFBM-0038 for BoKS Manager 6.7.

Update: As of 2017-02-27, the BoKS SELinux policy is available as a separate RPM that can be downloaded from the FoxT customer service website, named `boks-selinux-X.X-X.elY.noarch.rpm`, where `X.X-X` is the current version of the policy, and `Y` is the RedHat release number. In order to install the policy via the RPM you also need to apply the hotfixes **HFBM-0164** and **HFBM-0167**, also available from the FoxT customer service website.

Note: Only the targeted policy is supported. This is the default policy on Red Hat Enterprise Linux 6 / 7.

Important: SELinux is not guaranteed to be compatible with the FoxT Linux xRBAC feature, see also Known Issue #8731.

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What's Changed

Changed features in this release. Note that the features described here are changed in BoKS Manager as compared to the BoKS Manager 6.7.0 release. This section includes detailed descriptions for major changes and a table listing minor changes in this release.

For more detailed information on each feature, see the *BoKS Manager 6.7.1 Administration Guide* and *Installation Guide*, and where appropriate, BoKS man pages for relevant CLI programs.

Changes to AD Bridge Function

Multiple Account Mappings

A redesign of the AD Bridge function now allows an AD user account to map to multiple BoKS user accounts (both UNIX and WINDOM types) by letting the AD account be a member of multiple Host Groups exported from BoKS.

Modified listings:

```
mapkerberos -l
```

Now lists three columns, Principal, BoKS user and Account type.

```
lsbks -a/-f
```

Parameter "Has same User Principal Name as:" now lists multiple lines of users if more than two users share the same principal name.

```
lsbks -DA
```

Displays a comma-separated list of users with the same principal name.

Note: The redesign involves a small change to the database schema (a key is no longer required to be unique). This means the kerberos to user mapping table (T68) should be empty or at least contain no duplicate keys (PRINCIPAL field) before you install or uninstall the 6.7.1 patch.

Host Group Membership Changes

Changing the Host Group membership for an AD account was not reflected in BoKS. `adsync` has been modified so if Host Group membership is changed in AD, this is reflected in BoKS by deleting and re-creating the account(s).

See also issue #8431.

Changes to UID

When a user's UID was changed in AD, this was not reflected with changes in the user's login name in BoKS. In BoKS 6.7.1, changes to UID in AD are reflected in the `loginname` in BoKS if the configuration parameter in the `adsync.cfg` file `ALLOWUIDCHANGE` is set to `Y`.

See also issue #8215, TFS11292.

adgroup Exit Status

The **adgroup** command did not exit with non-zero status in all cases. This could cause **adsync** to delete all users. In BoKS 6.7.1, **adgroup** exits with non-zero status on errors. Additionally **adsync** has been modified to abort if it gets no Host Groups from **adgroup** rather than delete all users.

See also issue #8796.

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Hotfixes Included in This Release

The following hotfix versions are included in this release. Please note that occasionally, newer versions of a particular hotfix are released, in which case you may need to apply the hotfix in your environment.

- HFBM-0029-1 SSH Public Keys for Wrong Users Updated / Removed
- HFBM-0030-1 User gains root privileges from su, suexec and kslog
- HFBM-0032-1 On-demand Creation of Home Directories Fails
- HFBM-0033-1 ssh and boks_sshd not Presented With Clear Cache Option on Key Mismatch
- HFBM-0035-1 kslog Memory Access Violation on AIX
- HFBM-0036-1 Log File Size Limit of 2GB Too Small
- HFBM-0037-1 adjoin Constraint Violation Errors
- HFBM-0038-1 SELinux Not Supported When BoKS Installed
- HFBM-0039-1 CVE-2013 -6449 - OpenSSL DoS vulnerability
- HFBM-0040-1 Active Directory Users' expire-date Reset Every Time adsync is Run
- HFBM-0041-1 lsbs -l -DB May Not List Correct Reason For User Block
- HFBM-0042-1 Username Checking Too Restrictive For Some Environments
- HFBM-0043-1 SSL Vulnerabilities in OpenSSL 1.0.1-1.0.1e
- HFBM-0044-1 Multiple free in boks_sshd may cause program to crash
- HFBM-0045-2 nopswupdate, noclntd host flags not honored, memory fragmentation issues lead to failed authentications
- HFBM-0046-1 FCC Error When Expanding AD-mapped Host Group Basic Data
- HFBM-0047-1 OpenSSL Vulnerabilities Listed in secadv_20140605.txt
- HFBM-0048-1 AD Controller is unreachable - users previously imported from the AD are deleted by adsync
- HFBM-0049-1 REPORT_BOKS_SSH_VERSION=on Shows OpenSSH Version
- HFBM-0050-1 Replica Performance on Redhat 6 With ext4 Filesystem

- HFBM-0051-1 Reading/Writing Remote Files With cadm Slow
- HFBM-0052-1 GUI Admin Operations / BoKS Daemons Logged as User Who Started/Booted BoKS
- HFBM-0053-1 su from root fails on HP-UX
- HFBM-0054-1 suexec dumps core or produces incorrect logs of arguments
- HFBM-0056-1 FoxT Control Center (FCC) reports "Failed to add ... unix group"
- HFBM-0057-1 Client daemon segmentation fault if Unix group file empty
- HFBM-0059-1 Login with Single Sign-on via telnet fails two out of three times
- HFBM-0060-1 Keystroke logged sessions could sometimes leave orphaned klog processes on the system
- HFBM-0061-1 suexec fails on selinux system
- HFBM-0062-2 Keystroke log and BIC report retrieval fails if destination directory on separate disk partition
- HFBM-0063-1 Cannot run BoKS SSH Client for Windows 7.0 with BoKS Manager 6.7 infrastructure
- HFBM-0064-1 Issues with adjoin and adsync
- HFBM-0065-1 UID change in AD does not change username in BoKS
- HFBM-0066-1 LDAP sync causes unnecessary password updates
- HFBM-0068-1 lsbks performance issues in BoKS 6.7
- HFBM-0069-1 Fix for adjoin if any server in the list _ldap._tcp. returns error
- HFBM-0070-9 Multiple AD Bridge enhancements
- HFBM-0072-1 OpenSSL Vulnerabilities Listed in secadv_20150611.txt
- HFBM-0074-1 Ability to update a password file entry from within a Server Agent
- HFBM-0075-1 Alternative chains certificate forgery
- HFBM-0077-1 Cannot specify User Class Name including '.' in FCC
- HFBM-0078-1 SUEXEC allows non-interactive password change of target account
- HFBM-0080-1 SSH login with Kerberos authentication, may be prompted for keyboard-interactive authentication
- HFBM-0082-1 Large number of Unix groups causes admin server to stop responding

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Fixed Issues

Issues that have been fixed in this release.

Table 3: Fixed Issues in BoKS Manager 6.7.1

Issue #	Title	Description
	DISABLE SELINUX BEFORE INSTALLING BoKS MANAGER	BoKS Manager 6.7 required a hotfix to function with SELinux on Red Hat 6 and 7, and did not function with SELinux on Red Hat 5. BoKS Manager 6.7.1 supports SELinux.
#8829	UNSAFE RUNTIME LINK SEARCH PATH	Several BoKS binaries on the HP-UX Itanium platform have a built-in runtime link search path that includes directory paths not guaranteed to be owned by the root. An attacker having control over a directory in the runtime link search path could place a malicious shared lib in this directory and impersonate a shared system library.
#8812, TFS-10593	SUEXEC DENIED MESSAGES IN AUDIT LOG WITH SELINUX	With SELinux enabled, suexec operations generate AVCs saying suexec was denied in audit.log, even though the suexec operation is successful.
#8796	adgroup COMMAND EXIT STATUS	The adgroup command did not exit with non-zero status in all cases. This could cause adsync to delete all users.
#8744, TFS-11997	UPGRADE WITH upgrade_client DOESN'T CREATE ECDSA KEYS FOR SSH	If you upgrade a Server Agent to BoKS version 6.7 using the upgrade_client program, ECDSA-format keys are not created when SSH keys are restored, as this format is not included in earlier versions.
#8737, TFS-11987	upgrade_client DOESN'T CHECK EXIT CODE FROM uninstall	The upgrade_client program does not check the exit code from uninstall . Thus if uninstall is aborted, upgrade_client will continue the installation anyway, possibly resulting in a corrupt installation of BoKS.
#8637	SELINUX DOES NOT PERMIT chroot	BoKS sshd on Red Hat 6 and Red Hat 7 does not work with chroot when SELinux is enabled.
#7611	suexec WITH SECURID FAILS CAUSING SELINUX AVC ERROR	suexec using SecurID authentication does not work on Red Hat 6 and 7 when SELinux is enabled.
#7612	LOGIN CAUSES AVC ABOUT .boks_uenv FILE	When SELinux is enabled, a user's .boks_uenv file is not read when the user logs in using rlogin, rsh, rexec or telnet.
#8614	CVE-2015-5600 sshd ISSUE WITH UNLIMITED INTERACTIVE DEVICES	An issue in OpenSSH allows the user to specify the same device multiple times to the ssh command line, allowing more tries to crack a password than should be possible before the connection is closed down. With BoKS active, the max logintries for the user will stop any user from even attempting this, but this OpenSSH issue is fixed in BoKS SSH anyway.
#8431	HOST GROUP CHANGE NOT PROPAGATED TO BoKS	When a user is moved from one group to another in AD, the Host Group for the user is not updated in BoKS after adsync is run.

Table 3: Fixed Issues in BoKS Manager 6.7.1

Issue #	Title	Description
#8249, TFS11398	Idapusersync.pl DOES NOT CREATE passwd ENTRIES FOR ALL HASHING METHODS	When a user's password hash list is incomplete <code>servc</code> generates the missing hashes and regenerates existing hashes after a successful authentication, causing unnecessary updates in systems syncing passwords between BoKS and LDAP.
#8248	WRONG PATH TO <code>clntlog</code> IN <code>kslog_check_active_session.s.pl</code>	<code>kslog_check_active_sessions.pl</code> attempts to execute <code>\$BOKS_sbin/clntlog</code> . However the utility is located in <code>\$BOKS_lib</code> .
#8247	<code>getreports</code> LOOKS FOR RBAC <code>active_sessions</code> FILE IN /	The <code>getreports</code> program mistakenly searches for the RBAC <code>active_sessions</code> file in /.
#8246, TFS10586, TFS10589, TFS10587	<code>getreports</code> ATTEMPTS TO LIST FILES WITH A BAD PATTERN	If the <code>getreports get_kslog_file()</code> function fails to retrieve a file using <code>cadm</code> , it tries to check if it already has the file (and thus has duplicates in the queue). It does this by putting a file pattern together, but the file pattern is incorrect.
#8245, TFS10893	<code>adsync</code> FAILS IF CN INCLUDES PARENTHESES	If a user account's Common Name includes parentheses (), <code>adsync</code> fails to import the user into BoKS and returns a syntax error.
#8244, TFS10890	<code>adsync</code> HANDLING OF DOMAIN NAMES INCLUDING DASH	<code>adsync</code> fails to extract the DNS domain components from the Distinguished Name if there is a dash in the name.
#8243, TFS10586, TFS10589, TFS10587	<code>getreports</code> HANDLING OF FILES WITH BAD CHECKSUMS	If <code>getreports</code> fails to verify the checksum of a <code>kslog</code> file it leaves the file on the Server Agent then fetches the file and fails every 5 minutes as long as the file exists.
#8242, TFS10586, TFS10589, TFS10587	<code>getreports</code> DOES NOT HANDLE CORRUPT <code>bkz</code> FILES CORRECTLY	In the unlikely event that a compressed <code>kslog</code> file has become corrupted such that it cannot be uncompressed, <code>getreports</code> does not remove the file, and continues fetching it from the Server Agent and failing to decompress it.
#8241, TFS10641 (TFS141022-015180, TFS141028-015187)	OPTION TO DISABLE SSLv3 IN <code>httpsrv</code>	A number of vulnerabilities have been reported with the use of the SSLv3 protocol, including CVE-2013-2566 and CVE-2014-3566, but a method is required of disabling this version of the protocol for <code>httpsrv</code> in BoKS.
#8240, TFS141013-015152	FCC FAILS TO ASSIGN UNIX GROUP WITH MULTIPLE GIDS	When assigning a Unix Group to a user in FCC, the operation fails if the group has more than one GID registered in BoKS.
#8239, TFS140623-014954	<code>bridge_master_s</code> PERFORMANCE ON EXT4 FILESYSTEM	The master send bridge on a Replica displays worse performance on RedHat 6 when the ext4 filesystem is used.

Table 3: Fixed Issues in BoKS Manager 6.7.1

Issue #	Title	Description
#8238, TFS140626- 014961	BoKS 6.7 REPORT_BOKS_SSH_VER SION BEHAVIOR CHANGE	When you set the ENV variable <code>REPORT_BOKS_SSH_VERSION</code> to <code>on</code> in BoKS 6.7, the OpenSSH version is displayed as well as the BoKS SSH version.
#8237, TFS140408- 014761	OpenSSL VULNERABILITY CVE-2014-0160	Fixed code for this OpenSSL vulnerability.
#8236, TFS140117- 014600	OpenSSL CVE-2013-6449 AND CVE-2013-4353	Fixed code for these OpenSSL vulnerabilities.
#8235, TFS120120- 013183	MAX LOG FILE SIZE LIMITED TO ~2GB	There is a restrictive maximum size limit of 2GB for audit log files in BoKS Manager when setting max allowed log file size before log rotation.
#8234, TFS140521- 014870	getHostGroup ON AD-MAPPED GROUP DOES NOT RETURN adsyncAccountType	When retrieving data about an AD-mapped Host Group, the admin server function <code>getHostGroup</code> fails to return the attribute <code>adsyncAccountType</code> .
#8215, TFS11292	MODIFICATION OF UID ATTRIBUTE WITH adsync	The <code>adsync</code> program ignores changes to the UID attribute for user accounts in Active Directory, meaning this attribute is not updated for the corresponding account in BoKS.
#8205	ENV VAR PORT_RANGE CAUSES FATAL ERROR	The ENV variable <code>PORT_RANGE</code> , when set, causes the <code>boks_bridge</code> process to exit and write the following error to the BoKS error log: <pre>FATAL ERROR: ENV:PORT_RANGE Incorrect, Success (0)</pre> This variable should not be used.
#7954, TFS10415	adjoin KERBEROS AUTHENTICATION FAILURE	The "adjoin join" operation failed because it could not set the host kerberos key in the Active Directory.
#7944	getreports DUPLICATE ENTRIES IN new_reports	The <code>new_reports</code> file contains multiple duplicate entries for each <code>kslog</code> session report, which are not removed by the <code>getreports</code> program, resulting in multiple versions of the same report being sent to the BoKS Master.
#7935	getreports MULTIPLE INSTANCE CONTROL	The <code>getreports</code> program does not guard against multiple instances of the program running simultaneously.
#7923	getreports HANDLING OF MISSING REPORTS	<code>getreports</code> cannot tell whether a report file is missing from a Server Agent or the Server Agent is currently offline.
#7917	getreports DOES NOT TRACK AGENTS OFFLINE STATUS	The <code>getreports</code> program runs <code>cadm</code> to pick up report files from the BoKS Server Agents, but does not register when Agents are offline so continues to attempt retrieving files from them.

Table 3: Fixed Issues in BoKS Manager 6.7.1

Issue #	Title	Description
#7912	getreports DOESN'T HANDLE SIGNALS	If BoKS is restarted before a getreports operation has been properly terminated, there is a risk that data retrieved by the getreports operation is lost.
#7907	getreports RENAMES TEMP FILE ACROSS DISK PARTITION BOUNDARIES	If BoKS is installed on different disk partitions, getreports' removal of successfully fetched kslog files from the \$BOKS_etc/active_kslog_sessions file is handled in an inefficient way that may slow down the system.
#7846, TFS10589, TFS140514- 014854	ORPHANED kslog SESSIONS	The kslog process continues to run although the user's shell is gone. Typically the PPID of kslog is 1, i.e. the associated boks_sshd process is also gone.
#7821, TFS10647	INTERMITTENT SUCCESS OF SSO TELNET	SSO telnet connections via sslproxy fail intermittently.
#7749	RELEASE OF DB LOCKS COULD SLOW servc	In rare cases a call to <code>in_boks_by_addr()</code> in servc would release all database locks and not reacquire them, which could cause servc to perform slower.
#7701	kslog MAY DUMP CORE IN DEBUG MODE	If you log in when BoKS is activated and run a keystroke-logged suexec session, the kslog program may encounter a segmentation violation and dump core.
#7644, TFS140924- 015121, TFS141023- 015183	clntd DUMPS CORE IF NIS GROUP FILE EMPTY	boks_clntd dumps core (SIGSEGV) if the group file is empty and the primary group of the user has no associated name (not defined in BoKS). The only situation where this would happen is when the BoKS NISMAP is used (since <code>/etc/group</code> is by definition non-empty).
#7602, TFS110110- 012296, TFS141007- 015141	suexec DUMPS CORE ON VERY LONG ARGUMENT LINE	On some platforms suexec dumps core (or creates incorrect logs) when given a very long argument line.
#7557	active_kslog_sessions FILE NOT CLEANED UP	When a host is deleted from the BoKS database using <code>hostadm -d</code> , there may still be entries in the active_kslog_sessions file. These entries are not cleared from the file and will remain in the file forever if not manually removed.
#7478, TFS140723- 015017	IDENTIFYING AIX VIO VERSION IN boksinfo	On AIX VIO version 2, boksinfo does not gather the files <code>ios.level</code> and <code>FPLEVEL.txt</code> located in <code>/usr/ios/cli</code> to be able to identify the version.
#7470, TFS140723- 015017	RUNNING boksinfo BEFORE COMPLETE SETUP ON SERVER AGENT	If boksinfo is run after attempting to run setup on a BoKS Server Agent, but where the Agent has not been able to contact the Master to complete setup, boksinfo runs but fails to include any BoKS-specific information.

Table 3: Fixed Issues in BoKS Manager 6.7.1

Issue #	Title	Description
#7443, TFS140625- 014956, TFS140717- 015005	GUI ACTIVITY LOGGED AS WRONG USER ON RHEL 6	On RedHat 6, audit logs submitted by commands spawned by boks_init - or children of daemons of boks_init - have the username field set to the user who last re-started BoKS. This includes utility commands executed as a result of a GUI administrator event, both bccas (FCC) and httpsrv (old BoKS Administration GUI).
#7436, TFS140428- 014800	SMALL BUFFERS SLOW cadm FILE TRANSFER	File transfer to/from hosts via clntd is slow because of the small buffers used (read 512b, write 1024b).
#7427, TFS-10586, TFS-10587, TFS-10589	CLEANUP OF STALE ENTRIES IN \$BOKS_etc/active_kslog_sessions	If kslog_finalize cannot find the kslog session file(s) this is reported to the BokS log (log label " kslog_find_stale "). However there is no mechanism implemented in kslog_finalize to inform the Master of the missing files to allow getreports to remove the stale entry from \$BOKS_etc/active_kslog_sessions .
#7409, TFS140701- 014979	adsync ALTERS USER LOGIN NAME	The adsync program alters special characters used in the user logon name (UID attribute value) when creating user accounts in BoKS, potentially creating problems with e.g. integrating with external authentication systems.
#7320, TFS140514- 014853	hostadm -A MAY GENERATE BOGUS MESSAGES IN clntd BATCH QUEUE	When setting one of the noclntd or nopswupdate flags password file updates or other (xRBAC related) messages are stored in the clntd bridge fqe , although typically the purpose of the command is to inhibit such messages.
#7288	WARNINGS IN boks_errlog ON DHCP IP CHANGE	The file monitoring daemon looks for the wrong bridge lock file, leading it to write warnings to boks_errlog when a DHCP host gets a new IP address.
#7246, TFS140304- 014667	MULTIPLE scp CONNECTIONS STOP RESPONDING	A multiple free in boks_sshd causes the system to stop responding when running multiple scp sessions on a shared connection.
#7219, TFS140320- 014687	upgrade_client FILE PERMISSION CONTROL	The upgrade_client program (and underlying programs pre_upgrade and upgrade_version) does not exert proper control over resulting file permissions on restored files.
#7188, TFS140220- 014654	CONTINUATION LINES IN LDIF DATA NOT FULLY SUPPORTED BY adsync	The adsync utility could fail with the error message "Failed to determine DC for DN". The reason was that adsync sometimes didn't handle continuation lines in the LDIF data properly.
#7173, TFS140214- 014643	adsync AND NON-EXPIRING ACCOUNTS IN AD	Under certain circumstances, Active Directory users with account expiration date set to not expire have their expire-date reset in BoKS on every invocation of adsync .

Table 3: Fixed Issues in BoKS Manager 6.7.1

Issue #	Title	Description
#7140, TFS140109- 014585	kslog ON AIX CAN OVERRUN LOG BUFFER	The pipe buffer on AIX is larger than the buffer used in BoKS for writing kslog data to the log. This can lead to a log buffer overrun on this platform.
#7133, TFS130726- 014329	adjoin MAY FAIL IF HOSTNAME NOT FQDN	adjoin cannot resolve the FQDN of a host trying to join the domain, giving <code>Constraint Violation</code> error.
#7076, TFS131210- 014555	modbks -G NEWHGRP DOES NOT ACCEPT -Q	The admin server may under some circumstances still call the modbks program with the obsolete option -Q, but this operation is not permitted by new option consistency checking.
#7011, TFS130912- 014407	clear_cache FLAG ALWAYS DISABLED	When a key mismatch occurs, ssh and boks_sshd are not able to clear the key cache for loading the new host key in the event the host key has been renewed.
#6542	gunzip ERROR MESSAGE WHEN RUNNING UPGRADE	When you run boks_upgrade setup for the first time, the following error may be displayed: gunzip: is.gz: No such file or directory gunzip: /bin/gunzip: not in gzip format This error can be safely ignored, as the upgrade procedure continues even though the error is displayed.
#6753, TFS120127- 013201	SPEEDUP REPLICATION TO MASTER COMMUNICATION	Replica to Master communication is speeded up by putting multiple requests into one network packet. This can be configured using the BoKS ENV variables BRIDGE_MASTER_S_USE_CHUNK_BATCH , BRIDGE_CB_MAX_PACKET_SIZE_KB , BRIDGE_CB_TIMEOUT and BRIDGE_CB_TIMEOUT_INC .
#6696, TFS120408- 013379	DATABASE SHARED MEMORY FRAGMENTS AT GARBAGE COLLECTION AND BOOT	The way shared memory is initialized at a "Boot -k; Boot" and at garbage collection causes shared memory fragmentation which can lead to authentications failing.
#6695, TFS130523- 014236	PROGRAMS DO NOT CHECK RETURN FROM SETGID/SETUID	If a user is allowed to run su , suexec or kslog to gain access as a non-root user and setuid() fails, the user gains root privileges if the program does not check for the error and exits as these programs are setuid root.
#6580, TFS120606- 013543	USERS IMPORTED WITH WRONG UID / GID	This issue occurs if you are importing users from a host running a 64-bit Linux Operating System and you select either the option to import from the "NIS passwd map" or "NIS maps and /etc/passwd file", (which use the read passwd argument to boks_clntd). For users with a uid or gid greater than 32767, this uid/gid is interpreted as a negative number, meaning the wrong uid/gid is written to /etc/passwd and/or /etc/group on the host or Host Group you are importing to.

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Known Issues

Issues identified in this release, with workarounds where appropriate.

NOTE: The addition of support for non-crypt Unix password hashes makes it possible to use longer password lengths than 8 characters. However, be aware that different services may impose limits on password length that are outside the control of BoKS Manager. For more details, see the Administration Guide.

ABOUT UID AND GID RANGE IN BoKS

Valid range for uid and gid differs for different platforms. Uid and gid can also be signed or unsigned depending on platform. BoKS stores uid and gid internally as signed 32-bit integers, thus supporting a range of -2147483648 to 2147483647.

On platforms using unsigned uid/gid, boks_clntd converts signed to unsigned and vice versa when writing uid and gid from/to the local system files. For example, on AIX the nobody account can have both uid and gid 4294967294. When reading the /etc/passwd file with cadm the uid and gid are converted to the corresponding signed 32-bit integer -2

```
BoKS # cadm -l -f passwd -h aix71 | grep nobody
```

```
nobody:*:-2:-2::/:
```

Similarly to creating an account with a uid/gid larger than 2147483647 on the local system the uid/gid value in BoKS should be set to the corresponding (negative) 32-bit signed value. In BoKS a uid of -1 will result in local unsigned uid of 4294967295 etc.

Note also that the valid uid/gid range on some platforms is less than the full range of a 32-bit integer.

The BoKS ENV variable UIDRANGE can be used to limit the range of uid/gid values accepted by BoKS.

Table 4: Known Issues in BoKS Manager 6.7.1

Issue #	Title	Description
Known Issues on All Platforms		
#8806	\$BOKS_etc/safeword.cfg FILE REPLACED WITH DEFAULT FILE	<p>When you apply the BoKS Manager 6.7.1 patch on a working 6.7.0 system configured for Safeword support, the \$BOKS_etc/safeword.cfg file is moved to \$BOKS_dir/Patches/BOKS_etc/safeword.cfg.1 and replaced with a default safeword.cfg file. Safeword authentication will not work until the new file is configured.</p> <p>The reason the file is replaced is that the new file documents one new variable (SSL_CIPHERS) and a new allowed value for SSL_PROTO (TLSv1_1). The old file cannot be automatically updated since SSL_CIPHERS=EXPORT may need to be added if using an older Safeword server.</p>

Table 4: Known Issues in BoKS Manager 6.7.1

Issue #	Title	Description
#8624	CANNOT REGISTER ecdsa HOST KEYS IN PRE-6.7 DATABASE	The field SSHHOSTKEYTYPE is too short to store ecdsa SSH host keys in pre-6.7 BoKS databases. Therefore is it not supported to register ecdsa host keys for Server Agents running BoKS 6.7 if the Master and Replicas are running a BoKS version pre-6.7.
#8625	USER LOGON NAME REQUIREMENTS FOR AD BRIDGE PASSWORD SYNCH	For password synchronization to function correctly between Active Directory and BoKS, the "User logon name" and "User logon name (Pre-Windows 2000)" must be identical for a user, and the "User Logon Name (Pre-Windows 2000)" must contain only ASCII characters.
#6649, TFS130204- 014042	INCORRECT MESSAGE FROM FILMON	If a file being monitored by BoKS file monitoring is removed during a scan, but recreated when filmon processes the old database to discover e.g. files that have been removed, filmon incorrectly reports that the actual monitoring configuration has changed and the file in question is no longer being monitored.
#6621, TFS110706- 012754	BoKS FILE MONITORING ISSUES	This report includes two issues where BoKS file monitoring does not function as expected: If a "top level" directory or file which is specified in the file monitoring configuration file is missing on the host, filmon fails with an error rather than logging the discrepancy and continuing with the scan. If a "sub level" file or directory is missing, filmon returns the same error message but continues scanning without, however, logging the discrepancy.
#6616, TFS120809- 013704	LIMITATIONS IN modbks -G FUNCTIONALITY	The command modbks -G, used to change the Host Group part of a user account, has some limitations including lack of support for wildcard members added to Host Groups and lack of support to handle users with the same login name in different Host Groups.
#6660, TFS090821- 141531, TFS100725- 2510213	BROKEN DNS ENTRY CAUSES ACCESS ROUTES NOT TO FUNCTION	If a host has a broken DNS entry, so that its IP address can be mapped to a name, but the name cannot be mapped back to an IP address, Access Routes to the host that contain an IP address definition do not function correctly even if the variable HOSTUNKNOWNADDRESSOK is set to "on", in which case it might be expected that the Access Route would treat the host as an unknown host.
#6672, TFS120510- 013451	FULL DISK CAN CAUSE CORRUPTED ENV FILE	In the event of a disk becoming full on a running system, certain operations can cause the BoKS ENV file to become corrupted, for example bdebug and BoKS activation / deactivation operations.

Table 4: Known Issues in BoKS Manager 6.7.1

Issue #	Title	Description
#6683, TFS120723- 013671	adjoin DOES NOT DETECT IF HOST ALREADY JOINED TO KERBEROS SERVER	It is possible to join a host to an additional Active Directory even when it is already joined to another Kerberos server. This should be avoided as it could lead to unforeseen authentication behavior and is not a supported configuration.
TFS061017- 112910	PAM-BASED X-LOGIN ACCESS CONTROL MAY FAIL ON FIRST LOGIN ATTEMPT AFTER BoKS ACTIVATION/DEACTIVATIO N	PAM-based X-login using dtlogin/gdm/kdm/xdm is locked to a PAM configuration when displaying the login dialog and waiting for a login attempt. When BoKS is activated/deactivated the changed PAM configuration does not take effect until AFTER the first login attempt following a BoKS activation/deactivation. On the first login attempt after activation/deactivation the login may fail with an error message, or the user may be allowed to log in even if access should NOT be allowed according to BoKS access control rules. Affected platforms are IBM AIX 6.1 & 7.1, Red Hat Linux, SuSE Linux and Oracle Solaris. WORKAROUND: To avoid this issue, FoxT recommends always restarting the X Windows system after you activate or deactivate BoKS protection.
#8626	'CANNOT READ KEYTAB FILE' ERROR WITH SSH KERBEROS AUTHENTICATION	ssh login with Kerberos authentication fails and the boks_errlog file contains the message "cannot read keytab file". WORKAROUND: This error can be avoided by ensuring that the server uses the Fully-Qualified Domain Name as hostname. If the server uses a shorter version of the hostname, the OpenSSH daemon does not find the local key in the keytab file, since this is named after the FQDN.
#6898, TFS110420- 012573	INTERPRETATION OF WILD CARDS IN PROGRAM GROUP DEFINITION	The man page for the pgrpadmin program does not state if / how wild cards and regular expressions can be used. Wild cards are allowed with pgrpadmin (* and ?), but not regular expressions (e.g. [a-z]).
TFS060825- 163100	RLOGIN WITH SAFEWORD GENERATES "PAM AUTHENTICATION FAILED" MESSAGE	When a user performs rlogin and authenticates using a SafeWord token on Linux platforms, "PAM authentication failed" messages are written to /var/log/messages, even though the authentication is successful in BoKS.
	NON-CRYPT PASSWORD HASHING MAY REQUIRE ADDITIONAL OS SOFTWARE	Use of non-crypt password hash formats might require installation of additional system software packages or fixes on Oracle Solaris and IBM AIX. See the section "Unix/Linux Password Encryption" in the BoKS Manager Administration Guide for details.
	GROUP PASSWORDS ARE NOT SUPPORTED	Before installing BoKS any existing group passwords must be removed from the /etc/group file. If shadowed group passwords are in use i.e. an /etc/gshadow file exist, the entire /etc/gshadow file should be removed.

Table 4: Known Issues in BoKS Manager 6.7.1

Issue #	Title	Description
#061023-13 2719	BoKS DOES NOT START PROPERLY IF INSTALLED WITH A VERY LONG PATH	The BoKS base install paths (that have the default settings /opt/boksm, /etc/opt/boksm and /var/opt/boksm) should not be set to a path that is longer than 128 characters.
TFS050425- 101718.1	TELNET SSL-PROXY REQUIRES WORKING SERVICE NAME MAPPING	<p>During BoKS setup, the \$BOKS_lib/proxyinst script installs the telnet ssl-proxy daemon used for SSL encrypted telnet sessions from BoKS Desktops to BoKS hosts, and adds it to the local /etc/services file with the service name mapping</p> <pre>telnets 992/tcp</pre> <p>However, if the host is configured to use an external network information service such as NIS instead of the local /etc/services file, the proxyinst script may fail.</p> <p>Workaround:</p> <p>If the system is configured to NOT use the /etc/services file, add the mapping</p> <pre>telnets 992/tcp</pre> <p>to the external network information database before installing BoKS. Alternatively, after installing BoKS, update the external network information database with "telnets", then manually run the \$BOKS_lib/proxyinst script.</p>
#8627, TFS120514- 013475	HOSTNAME MAPPING TO EXTERNAL NETWORK ADDRESS MUST EXIST PRIOR TO BOKS INSTALLATION	<p>RedHat Linux by default maps the hostname to the loopback address 127.0.0.1 in the /etc/hosts file at installation even if an external network address is configured for the machine.</p> <p>Similarly, SuSE Linux can append 127.0.0.2 to /etc/hosts for the hostname.</p> <p>For BoKS to be installed correctly, the /etc/hosts file must map the external network address to the hostname registered on the BoKS Master and the loopback address 127.0.0.1 or .2 must NOT be mapped to the hostname registered in BoKS. Before installing BoKS, check the /etc/hosts file and correct it if necessary to meet this requirement.</p>
#8628	OLD SAFEWORD SERVERS MAY NOT WORK WITH OpenSSL TLSv1 PROTOCOL	The new OpenSSL version in BoKS manager 6.6.1 and later adds new extensions to the TLSv1 protocol. Old Safeword servers might not handle TLS extension negotiation correctly. To overcome this problem, a new configuration variable has been added to the BOKS_etc/safeword.cfg file named SSL_PROTO. The default value is "TLSv1" but the value can be set to "SSLv3" to make Safeword authentication work with old Safeword servers.

Table 4: Known Issues in BoKS Manager 6.7.1

Issue #	Title	Description
TFS041014-155307	FILES MUST BE TRANSFERRED MANUALLY AFTER UPGRADING REPLICA	After you upgrade a Replica, or reinstall BoKS Manager on a Replica for any other reason, you must manually transfer a number of files to the Replica by running the following command on the Master: BoKS# push_files <replica_name> This ensures that the Replica has all the required files in the event that it must be converted to a Master. For details, see the BoKS man page push_files.
TFS070921-083246	boks_upgrade HOTFIX INSTALL CANNOT DISTINGUISH PATCH LEVEL ON TARGET HOSTS	When installing hotfixes remotely with <code>boks_upgrade</code> it is not possible to limit the installation to only hosts running a specific BoKS patch level. For example, if a hotfix intended for BoKS version 6.5.1 is installed using <code>boks_upgrade</code> and the target is a Host Group containing both 6.5.1 and 6.5.2 hosts, the <code>boks_upgrade</code> program will try to install the hotfix on all the hosts in the Host Group.

Known Issues on AIX

#8629, TFS121023-013865	/etc/passwd NOT UPDATED CORRECTLY ON AIX	If one creates a Unix user in BoKS without assigning a password, no stanza is created for the user in <code>/etc/security/passwd</code> . This causes a problem with the "pwdck" command on the clients.
#6688, TFS111103-013025	UNLOGGED LOGIN FAILURE WITH SSH ON AIX	On AIX, if a user has a gid that is not present in <code>/etc/group</code> (or NIS), SSH to the machine may fail without an audit log in BoKS.
#8630	NATIVE SSH DOES NOT FUNCTION WHEN BoKS PROTECTION ACTIVE ON AIX	When BoKS protection is active on an AIX host, the native system SSH implementation does not function correctly and should not be used.
#8631, TFS110225-012418	umask DOES NOT WORK WHEN USER SHELL SET TO /bin/false ON AIX	When a user's shell is set to <code>/bin/false</code> , the <code>umask</code> value set does not function correctly in AIX 6.1 and 7.1.
	OS ROLE ASSIGNMENTS DELETION ON AIX	When uninstalling BoKS from a host existing local OS role assignments are not automatically deleted from the host. This may lead to unintentional exposure of the default AIX system roles <code>isso</code> , <code>sa</code> and <code>so</code> (<code>boksadm</code> and <code>boksop</code> OS role definitions are removed by <code>uninstall</code> and thus become invalid). Workaround: Alt 1. Before uninstalling BoKS make sure all user association to <code>isso</code> , <code>sa</code> and <code>so</code> for the host are removed using the BoKS Master console. Alt 2. After uninstalling BoKS run <code>lsuser -a roles ALL</code> to view any existing user OS role assignment and <code>chuser roles= <user></code> to remove assigned OS roles from a user.

Known Issues on AIX 6.1

Table 4: Known Issues in BoKS Manager 6.7.1

Issue #	Title	Description
	AIX 6.1 xRBAC REQUIRES FIX PACK	Use of AIX 6.1 xRBAC functionality requires installing fix pack "6100 TL1" to add 'Assign Roles to a User' functionality. For details, see: https://www-304.ibm.com/support/docview.wss?uid=isg1fixinfo107339
Known Issues on HP-UX		
#8632	BoKS PASSWD DOES NOT UPDATE SHADOW USING NEW CRYPT	When configuring HP-UX to use SHA512 passwords using CRYPT_DEFAULT and CRYPT_ALGORITHMS_DEPRECATED in /etc/default/security, it is important not to have any whitespace characters after the values to these parameters. While HP-UX accepts this, BoKS currently does not.
TFS100106-110037	HOST/NODE NAME LENGTH RESTRICTION ON HP-UX	By default, the nodename is limited to 8 bytes on HP-UX 11. BoKS requires that the nodename and short hostname (hostname without domain component) are identical and at most 8 bytes long. Tuning the kernel to support longer node/host names using the expanded_node_host_name kernel parameter is not supported by BoKS.
TFS070927-143037	UNINSTALL MAY NOT REMOVE SOME FILES	When you uninstall BoKS on a host running HP-UX, files for any programs that are in use, for example programs in use by logged in users, cannot be removed. WORKAROUND: Move the top directory (/opt/boksm) to another name then try to remove it later when users have logged out and programs are no longer in use.
Known Issues on HP-UX 11iv2 & 11iv3		
#8633	HP-UX 11iv2, 11iv3 AND SHA512 PASSWORD LENGTH	With only the patch to support SHA512 hashed passwords installed on HP-UX 11iv2 and HP-UX 11iv3, the system supports passwords of a maximum 8 characters in length. If you configure BoKS to use longer passwords, you will not be able to log in when BoKS protection is deactivated or BoKS is uninstalled. For HP-UX 11iv3 a separate HP-UX patch is available to support longer passwords with SHA512 hashed passwords.
Known Issues on Red Hat, CentOS, Oracle Linux, SuSE, Ubuntu, Debian		
#8802	.boks_uenv FILE NOT PROCESSED FOR LINUX rlogin	The \$HOME/.boks_uenv file is not processed for login with rlogin to Linux BoKS hosts.
Known Issues on Red Hat 6 / 7, CentOS 6 / 7 and Oracle Linux 6 / 7		

Table 4: Known Issues in BoKS Manager 6.7.1

Issue #	Title	Description
#8731	FoxT LINUX xRBAC INCOMPATIBLE WITH SELINUX	The FoxT Linux xRBAC feature, which adds a layer of permission control on Linux, is not guaranteed to be compatible in all cases with SELinux, which may in certain cases prevent operations that should be allowed by the xRBAC configuration.
Known Issues on Red Hat EL 7		
#8634	journalctl SHOWS 'TOO MANY LOGIN TRIES (1) WHEN LOGIN FAILS	If a user gives the wrong password when attempting to log in using rlogin, the log shown by journalctl incorrectly shows the message "TOO MANY LOGIN TRIES (1) FROM ... FOR ..., Have exhausted maximum number of retries". The BoKS audit log shows the correct error (wrong password).
Known Issues on Red Hat EL 6 & 7		
#8638	BLOWFISH PASSWORD HASH ALG NOT SUPPORTED	Even though RedHat supports the Blowfish algorithm for password hashing, the BoKS RedHat 6 and RedHat 7 ports do not.
#8639	EXTRA SELINUX ENV VARS MISSING WHEN USING boks_sshd	On RedHat 7 and RedHat 6, the environment variables SELINUX_ROLE_REQUESTED, SELINUX_USE_CURRENT_RANGE, and SELINUX_LEVEL_REQUESTED present when logging in using the system sshd with SELinux enabled are not present when logging via the BoKS sshd.
Known Issues on Red Hat EL 6		

Table 4: Known Issues in BoKS Manager 6.7.1

Issue #	Title	Description
	CANNOT CHANGE PASSWORD HASH ALGORITHM CONFIGURATION WHEN BoKS IS ACTIVE	<p>On Redhat Enterprise Linux 6, the password hash algorithm configuration can be changed via the utility <code>/usr/bin/system-config-authentication</code>. Changing the password hash algorithm configuration updates the parameter "crypt_style" in file <code>/etc/libuser.conf</code>, see <code>libuser.conf(5)</code> and the password hash option to the <code>pam_unix.so</code> modules in <code>/etc/pam.d/system-auth-ac</code>, see <code>pam_unix(8)</code>.</p> <p>When BoKS protection is active, <code>/etc/pam.d/system-auth-ac</code> is a soft-link to <code>/etc/pam.d/org/system-auth-ac</code> and this apparently prevents <code>/usr/bin/system-config-authentication</code> from updating the password hash option of the <code>pam_unix.so</code> module.</p> <p>Although the <code>pam_unix</code> module is not used for authentication when BoKS protection is active, it is important that the password hash option is correctly configured because this configuration is also used by BoKS to select hash algorithm when provisioning user accounts to the machine.</p> <p>WORKAROUNDS:</p> <p>ALT 1. Deactivate BoKS protection before changing the password hash algorithm with <code>/usr/bin/system-config-authentication</code>.</p> <p>ALT 2. Edit the password hash algorithm configuration manually using a text editor in the files <code>/etc/libuser.conf</code> and <code>/etc/pam.d/system-auth-ac</code>.</p>
Known Issues on Oracle Solaris 11		
#8643	DUPLICATED LOGIN MESSAGE AT SSH LOGIN TO SOLARIS 11	<p>When you log in to a BoKS host running Oracle Solaris 11 using SSH, the login message may be displayed twice.</p> <p>WORKAROUND: Set the parameter <code>PrintMotd</code> in the <code>sshd_config</code> file to "no", which prevents ssh from printing the motd file.</p>
#8644	BROKEN PAM IMPLEMENTATION IN SOLARIS 11 proftpd	<p>The Solaris 11 ftp service uses <code>proftpd</code> which has a broken PAM implementation. After a successful authentication the <code>proftpd</code> calls <code>pam_open_session</code> and then immediately <code>pam_close_session</code> although the user session is still open.</p> <p>BoKS uses the PAM open/close session calls to generate login/logout log messages for the BoKS audit log and the result is that at both BoKS login and logout, log messages are set at ftp session start.</p>

Table 4: Known Issues in BoKS Manager 6.7.1

Issue #	Title	Description
#8645	ONLY inetd SERVICES SUPPORTED FOR sysreplace ACTIVATED/DEACTIVATED SERVICES	Activating/deactivating services at BoKS activation/deactivation using the BoKS ENV variables SYSREPLACE_ACTIVATED_SERVICES and SYSREPLACE_DEACTIVATED_SERVICES is only supported for services managed by inetd. Specifically the ftp services is not managed by inetd in Solaris 11 and is not supported by the sysreplace activated/deactivated services function.
Known Issues on SuSE 11		
#8775	insserv WARNING WHEN INSTALLING BoKS	When installing BoKS on SuSE 11, the following warning is given: insserv: Service network is missed in the runlevels 4 to use service boks This warning is given because BoKS installs itself in <code>/etc/init.d/rc4.d</code> on SuSE 11, which is not used, and so has no startup file for the network. The warning can be safely ignored.
Known Issues on Debian 7 / Ubuntu 12		
	ftpd AND vsftpd SUPPORT	Note that while both Debian 7 and Ubuntu 12 both support ftpd and vsftpd for authentication, if you want to make use of the SYSREPLACE_ACTIVATED_SERVICES and SYSREPLACE_DEACTIVATED_SERVICES configuration variables for ftp (for advanced BoKS Protection configuration), only vsftpd works for Debian and only ftpd works for Ubuntu.
#8646	DEBIAN & UBUNTU VERSIONS ASSUME DEFAULT inetd IS USED	Although on Debian and Ubuntu you can select which inetd daemon to use, for example you can use xinetd instead of the standard default openbsd-inetd, the BoKS Manager 6.7 version built for these platforms only works with the system default openbsd-inetd. If you have configured the system to use any other daemon, BoKS does not function correctly.
#8647	nslookup RUN IN BoKS SHELL GIVES ERROR REGARDING libcrypto.so	When in the BoKS shell, nslookup (and possibly other commands) fail, returning an error stating that <code>\$BOKS_lib/shlib/libcrypto.so.1.0.0</code> has no version information available. This issue is caused by an incompatibility between the BoKS and system version of the libcrypto.so shared library. In the BoKS shell, the BoKS version of the library is found first. WORKAROUND: Either exit the BoKS shell, or temporarily unset LD_LIBRARY_PATH when running the command , e.g.: BoKS # LD_LIBRARY_PATH= nslookup

Table 4: Known Issues in BoKS Manager 6.7.1

Issue #	Title	Description
#8648	STANDARD SYSTEM SCREENLOCK DOES NOT PROMPT FOR SECURITY PIN	The standard screensaver (gnome screensaver) runs as the user logged in, and so cannot determine how the user authenticated when logging in, so will ask for password to unlock the screen even if e.g. an RSA SecurID token was used to log in. WORKAROUND: Configure the system to use the BoKS screenlock program xdl, which is located in the directory \$BOKS_bin/X11.
Known Issues on Ubuntu 12		
#8649	PROMPTING AND TEXT DISPLAY ISSUES WITH X LOGIN ON UBUNTU	When logging in using X (unity) on Ubuntu, a user is normally always selected and a prompt is displayed requesting e.g. password. If the authentication method for that user changes, this is not reflected in the prompt. WORKAROUND: Select another user, then the first user again. In addition, text messages from BoKS are truncated and shown for a very short time. WORKAROUND: There is no workaround to this issue. This is caused by a limitation in the Ubuntu X-login client.

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Revision History

Revision: 8

Date of this revision: 2018-12-11

Revision history:

Table 5: Revision History

Rev No	Date	Comments
1	12/11/2015	First version.
2	12/29/2015	Added fixed issue #8829.
3	01/18/2016	Added information about hotfix versions included in the release.
4	02/25/2016	Added information that hotfixes HFBM-0053 and HFBM-0069 are included.
5	03/08/2017	Added information about availability of RPM for BoKS SELinux and hotfixes HFBM-0164 and HFBM-0167.
6	2017-12-15	Added support for IBM AIX 7.2 (qualified on Server Agent only).

Table 5: Revision History

Rev No	Date	Comments
7	2018-01-03	Support for IBM AIX 7.2 now qualified for Master, Replica and Server Agent.
8	2018-12-11	Added information about platform support on Solaris 11.

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