NetIQ Security Solutions for IBM i 8.1 - Compatibility with IBM i 7.4

Technical Reference

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NetIQ Security Solutions for IBM i continues to help you eliminate security risks and maintain business continuity across your IBM i servers when you upgrade your operating system to IBM i 7.4.

If you are using Version 8.1 of NetIQ Security Solutions for IBM i, it is strongly recommended that you upgrade to the current version of NetIQ Security Solutions for IBM i, which includes TGAudit 2.1, TGSecure 2.1, and TGDetect 2.1, before upgrading your operating system to IBM i 7.4. All functionality in these product components is fully operational and provides enhanced security capabilities on servers running IBM i 7.4.

This Technical Reference provides information about IBM i 7.4 upgrade requirements and the migration path available to address known compatibility issues with NetIQ Security Solutions for IBM i 8.1.

If you must continue to use Version 8.1 of NetIQ Security Solutions for IBM i, please ensure you follow the steps in the upgrade checklist provided in this document and review the known compatibility issues.

Legal Notice

Planning Your IBM i 7.4 Upgrade

This section addresses issues to consider and provides steps to follow before upgrading your operating system to IBM i 7.4 on systems running NetIQ Security Solutions for IBM i 8.1.

Upgrade Checklist

Review the following checklist items before upgrading to IBM i 7.4.

Checklist Items

1. ***If you use NetIQ Sentinel Agent Manager to audit IBM i log data,*** determine the amount of log data you want to collect while performing the upgrade. For more information, see "Security Audit Journal Considerations" below.

2. Review the known issues described in "Known IBM i 7.4 Compatibility Issues" below.

3. Ensure PTFs released to address known issues in previous operating system versions have been applied. Especially if you are skipping an OS version during this upgrade, make sure you review and follow the instructions in the NSSi 8.1 compatibility document specific to the skipped OS version.

4. Permanently apply all currently applied NetIQ Security Solutions for IBM i 8.1 PTFs for all licensed programs: 1PSA001, 1PSC001, 1PSD001, 1PSI001, and 1PSS001. For instructions, see "Permanently Apply PTFs" below.

5. ***If you are using PSSecure Profile and Password Management to monitor inactive user profiles,*** remove the Q* exclusion from the User Profile Management feature and hold the PSPROFILE scheduled job. For more details and instructions, see "Remove the Q* Exclusion" below.

6. ***After upgrading to IBM i 7.4,*** re-add the Q* exclusion to the User Profile Management feature and start the PSPROFILE scheduled job. For instructions, see "Re-Add the Q* Exclusion" below.

Security Audit Journal Considerations

The upgrade process can generate a large volume of journal entries in the QAUDJRN, depending on your journal settings. Processing these journal entries will require additional time and can severely affect jobs in NetIQ Sentinel Agent Manager (SAM) and the PSAudit System Auditing and Reporting (SAR) function. If you use SAM for IBM i to collect IBM i logs, consider if you want to adjust your security audit level (QAUDLVL) settings before upgrading to IBM i 7.4 and restore them afterwards.

Permanently Apply PTFs

Before upgrading your operating system to IBM i 7.4, you must permanently apply all currently applied NetIQ Security Solutions for IBM i 8.1 PTFs.

TO PERMANENTLY APPLY PTFS:
1. Type the following command on the IBM i command line.
   ```
   APYPTF LICPGM(1PSA001) RLS(V8R1M0) SELECT(*ALL) APY(*PERM)
   DELAYED(*NO)
   ```
   Note You can run the command interactively. It is not necessary to perform an IPL after applying the NetIQ PTFs.
2. Press **Enter**.
3. Repeat Steps **1** and **2** for licensed programs 1PSC001, 1PSD001, 1PSI001, and 1PSS001.

Remove the Q* Exclusion

The upgrade to IBM i 7.4 can remove and replace one of the IBM "Q" profiles. If you are using PSSecure Profile and Password Management (PPM) to monitor inactive user profiles, you must remove the Q* exclusion from the PPM User Profile Management function. You must also hold the PSPROFILE scheduled job.

TO REMOVE THE Q* EXCLUSION FROM PPM:
1. On the command line, type WRKJOBSCDE, and then press **Enter**.
2. **If the PSPROFILE job is scheduled,** put it on hold.
3. From the NetIQ Product Access Menu, type 2 (PSSecure), and then press **Enter**.
4. Type 2 (Profile and Password Management), and then press **Enter**.
5. Type 1 (General Options Menu), and then press **Enter**.
6. Type 17 (User Profile Exclusions), and then press **Enter**.
7. Remove the entry for Q*.

Re-Add the Q* Exclusion

After you upgrade to IBM i 7.4, you must re-add the Q* exclusion to the PPM User Profile Management function and release the PSPROFILE scheduled job. For more information, see "Remove the Q* Exclusion" above.

Known IBM i 7.4 Compatibility Issues

We strive to ensure our products provide quality solutions for your security needs and have tested all NetIQ Security Solutions for IBM i products on systems running IBM i 7.4. This section describes known issues found during compatibility testing and the available upgrade path for remediation.

PSAudit - System Auditing and Reporting (SAR)

Object Load Failure

Many reports in SAR are based on data generated from the "Load File, Object, and Library Database" function (usually scheduled as job name: ZAA2000C or AA2000C). On IBM i 7.4, an error is encountered in this job which prevents the job from completing normally. To resolve this issue, upgrade to the current version of NetIQ Security Solutions for IBM i which includes TGAudit 2.1.

TGAudit 2.1 provides hundreds of security audit reports and enhanced auditing features including:

- *New report output options: HTML, CSV, XML, and JSON*
- *Highly customizable report features, including column selection*
- *Enhanced report filtering with SQL-like operators and up to 5 levels of nesting*
- *Optimized runtime report options*
- *New Report Cards feature to easily run many reports at once and see high-level pass/fail results*
- *New built-in Report Cards that have already mapped IBM i technical controls to many industry-standard compliance regulations like PCI, SOX, and HIPAA, making it easy to determine security compliance*
- *New report creation wizard*
- *New Report Card creation wizard*
- *Next generation data-level reporting*
- *Next generation job activity monitoring*
- *Enhanced integration and streamlined with TGSecure and TGDetect*
- *New centralized management web console component: TGCentral*

Previous Operating System Version Compatibility

NetIQ Security Solutions for IBM i 8.1 continues to operate in the same manner with certain IBM i 7.4 operating system features as it previously has with IBM i 7.3. Among these considerations are:

- QPWDLVL 0 is the only fully supported password level in password-related product components
- Newer profile parameters are not supported in profile-related product components
- Integration with IASP usage requires configuring the applicable IASP through the SETASPGRP command

To gain full support of these OS features and take advantage of enhanced security features and reporting, please upgrade to the current version of NetIQ Security Solutions for IBM i, which contains TGAudit 2.1, TGSecure 2.1, and TGDetect 2.1.