SYNESIS Version 7.0 Release notes

Jul 25, 2022,   Version 7.0.6

Released Packages

This version of the release package is applicable to the following products.
- The SYNESIS of Version 7.0.1 to 7.0.5
- New shipment

Models

Same as previous version.

Fixed Issue

1) The issue was fixed: In the setup of PTP time synchronization according to User's Guide chapter 16.3.1, the TimeSyncOsTimeReference parameter at the step 7 wouldn't be configured correctly. [#22724]
    - This issue occurred in the version 6.5.1 or later.

May 13, 2022,   Version 7.0.5

Released Packages

This version of the release package is applicable to the following products.
- New shipment
- Upgrade from version 6.5 and 6.0

Models

The current situation, the support status of each model is as following table.
- Operation confirmed

Capture Module	Control Unit (Portable)	Control Unit (Distributed)	External Storage
SYxC-1G4N1-HP/LE, SYxC-10G2N1-HP/LE, SYxC-10G4N1-HP, SYxC-25G4N1-HP, SYxC-100G1N2-HP, SYxC-100G2N2-HP	SYxB-2GP1/2/3, SYxB-4GP1/2, SYxB-10GP1/2/3, SYxB-20GP1/2/, SYxB-40GP1/2, SYxB-50GP1, SYxB-100GP1/2/3, SYxB-100GP1-7300MAX	SYxB-2GR1-C, SYxB-8GR1-C, SYxB-10GR1/2, SYxB-20GR1/2, SYxB-20GR1-CP	SYxE-8GR1-C, SYxE-20GR1/2

| | SYxB-200GP1 | | |

● <u>Operation unconfirmed</u>

Capture Module	Control Unit (Portable)	Control Unit (Distributed)	External Storage
SYxC-40G2N1-HP	SyxB-20GP1-R10 SYxB-80GP1, SYxB-200GP2	-	-

Changes from Version 7.0.4

1) Added a new Distributed Control Unit.
2) For the image of system recovery in V7.0.3 and V7.0.4, we fixed that the beginning and end position of MBR (Master Boot Record) was different from V7.0.2.
3) For the Version Up from V6.0, we reviewed the procedure to prevent that the user would select incorrect models.

Apr 11, 2022,   Version 7.0.4

Released Packages and Models

Same as previous version.

Vulnerability Countermeasures

● [CVE-2022-22965] We applied a workaround of "Disallowed Fields" that provided by Spring Framework.
  ➢ Ref: https://spring.io/blog/2022/03/31/spring-framework-rce-early-announcement#disallowed-fields

Fixed Issue

● The issue was fixed: After performed an installer, the password of Management Console had reset to the default. [#21815]
  ➢ This issue occurred in the installer of V6.5.2, V6.5.4, V7.0.2, V7.0.3.
  ➢ If your password had already been reset, please reconfigure it by following to the steps in "Administrators' Manual" chapter 5.2.2.1.
  ➢ This issue did not occur in the version up package from 6.5 to 7.0.2 because its package backed up the setting file and restored it.
● The issue was fixed: In the Restful API 2.0, the downloading trace file specified by its URL would be failed by the permission error. [#21630]
  ➢ This issue occurred in the Version 6.5.1 or later.

Mar 28, 2022,   Version 7.0.3

Released Packages and Models

Same as Version 7.0.2

1) The bonding of management ports is now supported only in active/backup mode. [#20655]
    ➢ For details, refer to Chapter 4.1.4 in the Administrator's Manual.
    ➢ Though the description was added in the manual from this version, the bonding feature can be supported from Version 7.0.1.
2) The issue has been fixed: 0x00 was appended to the end of SNMP trap notification messages. This caused some SNMP managers or wireshark to incorrectly convert the message to an ASCII string. [#21339]
    ➢ SNMP traps configured in the GUI are the target of this bug. Capture or FeedService checkers are not.
3) The issue has been fixed: In the Backup/Restore, when uploading the backup data created in the Version 7.0 and its name contains multi-byte character, the character will be corrupted. [#21537]
    ➢ The issue occurs in V7.0.1~V7.0.2.
4) In the User's Guide chapter 14.1.1, the description in the case of checking multiple KPIs was wrong. We fixed it.
    ➢ Wrong: If checked multiple boxes, the condition will be judged by OR condition.
    ➢ Correct: If checked multiple boxes, each level of Critical, Important and Normal will be judged by AND conditions.

Feb 03, 2022,   Version 7.0.2

Released Packages

This version of the release package is applicable to the following products.
● New shipment
● Upgrade from version 6.5 and 6.0

Models

The current situation, the support status of each model is as following table.
● Operation confirmed

Capture Module	Control Unit Portable	Control Unit Distributed	External Storage
SYxC-1G4N1-HP/LE, SYxC-10G2N1-HP/LE, SYxC-10G4N1-HP, SYxC-25G4N1-HP, SYxC-100G1N2-HP, SYxC-100G2N2-HP	SYxB-2GP1/2/3, SYxB-4GP1/2, SYxB-10GP1/2/3, SYxB-20GP1/2/, SYxB-40GP1/2, SYxB-50GP1, SYxB-100GP1/2/3, SYxB-100GP1-7300MAX SYxB-200GP1	SYxB-2GR1-C, SYxB-8GR1-C, SYxB-10GR1/2, SYxB-20GR1/2,	SYxE-8GR1-C, SYxE-20GR1/2

● Operation unconfirmed

Capture Module	Control Unit Portable	Control Unit Distributed	External Storage
SYxC-40G2N1-HP	SyxB-20GP1-R10 SYxB-80GP1, SYxB-200GP2	-	-

Changes from Version 7.0.1

1) Provided an upgrade package from version 6.0 and its procedure. By upgrading, the Ubuntu OS will automatically be upgraded from 16.04 to 20.04. [# 20238]
2) Control Unit SYxB-200GP1 is now applicable.
3) Fixed the issue: the recovery process will terminate during version up because the license file does not exist.

Jan 11, 2022, Version 7.0.1

Models

The current situation, the support status of each model is as following table.
- Operation confirmed

Capture Module	Control Unit Portable	Control Unit Distributed	External Storage
SYxC-1G4N1-HP/LE, SYxC-10G2N1-HP/LE, SYxC-10G4N1-HP, SYxC-25G4N1-HP, SYxC-100G1N2-HP, SYxC-100G2N2-HP	SYxB-2GP1/2/3, SYxB-4GP1/2, SYxB-10GP1/2/3, SYxB-20GP1/2/, SYxB-40GP1/2, SYxB-50GP1, SYxB-100GP1/2/3, SYxB-100GP1-7300MAX	SYxB-2GR1-C, SYxB-8GR1-C, SYxB-10GR1/2, SYxB-20GR1/2,	SYxE-8GR1-C, SYxE-20GR1/2

- Operation unconfirmed

Capture Module	Control Unit Portable	Control Unit Distributed	External Storage
SYxC-40G2N1-HP	SyxB-20GP1-R10 SYxB-80GP1, SYxB-200GP1/2	-	-

New Features

The following features have been added.
1) Added the Feed Service feature to read packets directly from the packet store. [# 18491]
    - For details on how to use and the limitation of each model, refer to "FeedService User's Guide".
2) Added Capture Trigger feature to start / stop capturing at a specified time. [# 10926]
    - For details, refer to Chapter 4.4.4 in the User Guide.

3) Enhanced the CLI version of Packet Replayer Sync. It is available to synchronize the timing of packet transmission between each channel for all models except LE models of the capture module. [# 20531]
   ➢ Need to purchase "PacketReplayer Option".
   ➢ For details, refer to Chapter 4 in "SYNESIS PacketReplayer User Guide".

Changed Specifications

The following specifications have been changed since version 6.5.
1) Relaxed the restrictions on Backup/Restore function. [# 7137, # 12724]
   ➢ Backup data created with version 6.0 or later can be restored.
   ➢ Backup data of any model can be restored.
2) Separated the setting files from the checkers under synesis_tools because the settings will be stored when applying patches or upgrading. [# 20598]
   ➢ For details, refer to "Capture Checker Tool Manual" and "FeedService Checker Tool Manual".
3) Changed the specification of the PacketReplayer start / stop button on the upper right of the screen. [# 20370]   The target profile immediately will be selected by clicking the profile on the PacketReplayer screen.
4) Outputted Tomcat process restart to the log. [# 19736]
5) Outputted the settings of "Capture Option" at starting capture to the log. [# 19264]
6) Reviewed the PostgreSQL settings to operate stably. Also, PostgreSQL logs can be collected by the GetLogs function. [# 6333, # 6334, # 10267]

Fixed Issues

The following issues have been fixed.
1) There was a low probability that NetKeeper would start twice when restarting VPEyes or NetKeeper process after applying a patch. In this case, captured packets could not be saved correctly or captured statistics could not be recorded correctly in the database. [#20580]
   ➢ This issue occurred intermittently in all versions prior to 6.5.2.
2) When there were approximately 20 or more captured sessions, the transition to the agent screen of the GUI would be slow. Also, the CPU usage rate would temporarily increase, which might cause packet drops. [#20457]
   ➢ This issue occurred in versions 6.0.1 through 6.5.2.
3) In PacketReplayer, if you specify "Keep Original Speed" as the stream and the replayed data had a delta time of more than 1 second, the delta time was reduced to 1 millisecond and the data was replayed. [#20705]
   ➢ This issue occurred in versions 4.0 through 6.5.2.
4) When "Auto Rotate" of Auto Backup was enabled and capture-was executed with the setting as "used size", the saved trace files were deleted at an incorrect timing. Specifically, if the time exceeds 00 minutes every hour, the trace files saved in the previous hour would be deleted with entire folders. [#20672]
   ➢ This issue occurred in versions 3.5 through 6.5.2.

5) NTP was enabled by default. This would cause SYNESIS to send out packets to x.ubuntu.pool.ntp.org. [#20585]
   - This issue occurred on the following S/N manufactured with version 6.5.
     - S/N 2J0000190-00, 2J0000191-00 and 2J0000192-00.
6) For HangUpChecker, there was a potential issue that NetKeeper process did not terminate normally at generating a core dump. [#20748]
   - This issue occurred in versions from 2.5 through 6.5.2.

Known Issues and Limitations added in this version

1) SYNESIS with Control Unit SYxB-100GP1-7300MAX could not replay a capture session in the Packet Replayer feature. If PacketReplayer ran, SYNESIS automatically restarted the NetKeeper process. [#20500]