



SYNESIS Version 8.5 Release Notes

Oct 8, 2024, Version 8.5.3

Upgrading

The upgrade method for current version is as follows:

- Version 6.5 – 8.5.2: Apply Version 8.5.3 upgrading package.
- Version 6.0 or earlier: Perform system recovery using Version 8.5.3 recovery media.

The upgrade method is the same as in version 8.5.1. Please refer to the description in the version 8.5.1 release notes "Upgrading".

Models of Upgrading Available

| SYNESIS Portable | | SYNESIS Distributed | |
|------------------|------------------|---------------------|-----------------|
| SYX-P-CB-2G-3 | SYX-P-CB-50G-1 | SYX-D-CB-2G-1 | SYX-D-CB-10G-3 |
| SYX-P-CB-4G-2 | SYX-P-CB-100G-1 | SYX-D-CB-2G-2 | SYX-D-HPB-20G-2 |
| SYX-P-CB-10G-3 | SYX-P-HPB-100G-2 | SYX-D-HCB-8G-1 | SYX-D-HPB-20G-3 |
| SYX-P-CB-20G-2 | SYX-P-HPB-200G-2 | SYX-D-HCB-8G-2 | SYX-D-HPB-20G-4 |
| SYX-P-CB-40G-2 | SYX-P-HPB-200G-3 | SYX-D-CB-10G-2 | |

P/Ns of Production Available

| Control Unit P/N | | | Capture Module P/N | |
|------------------|------------------|-------------------|--------------------|-----------------|
| SYxB-2GP3 | SYxB-50GP2 | SYxB-10GR2-C (*1) | SYxC-1G4N1-HP | SYxC-10G4N1-HP |
| SYxB-4GP2 | SYxB-100GP4 | SYxB-10GR2 | SYxC-1G4N1-LE | SYxC-10G4N1-LE |
| SYxB-10GP3 | SYxB-200GP3 | SYxB-10GR3 | SYxC-1G4N2-HP | SYxC-10G4N2-HP |
| SYxB-20GP1-R10 | SYxB-2GR2-C | SYxB-10GR3-T | SYxC-1G4I1-LE | SYxC-25G2N1-HPL |
| SYxB-20GP2 | SYxB-2GR2-CT | SYxB-20GR2 (*1) | SYxC-1G2N1-HPL | SYxC-25G4N1-HP |
| SYxB-20GP3 | SYxB-8GR1-C (*1) | SYxB-20GR3 (*1) | SYxC-10G2N1-HP | SYxC-100G2N2-HP |
| SYxB-20GP3-2D | SYxB-8GR2-C (*1) | | SYxC-10G2N1-LE | |
| SYxB-40GP2 | | | | |

(*1) Can apply External Storages.

New Features

- 1) Supports a tool for backup and restore of the entire SYNESIS system for use during device replacement and system recovery. [#27367]
- 2) Added functions for exporting and importing settings for some items on the configuration screen, hardware filters in the capture options, etc. [#27365]

Fixed Issues

- 1) Fixed an issue in the pattern filter of the software filter, where the pattern filter would start at the beginning of the frame even if anything other than 'Starting Point' is specified as the 'Match Starting From'. [#28338]
 ✧ This issue occurred in all versions since 8.0.
- 2) Fixed an issue where the Syslog file was not rotated correctly. [#28819]

Limitations Added in This Version

- 1) When using the Feed Service to read packets in the scap format in SYNESIS with the adapter SYxC1G4I1-LE, the packet format is incorrect, so please read packets in a format other than scap.

May 31, 2024, Version 8.5.2

Upgrading

The upgrade method for each model and current version is as follows:

| Current version \ Models | Version 6.5-8.0, 8.5.1 | Version 6.0 or earlier |
|--|--|---|
| SYX-P-CB-2G-3, SYX-P-CB-4G-2, SYX-P-CB-10G-3, SYX-P-CB-20G-2, SYX-P-CB-40G-2 | Apply Version 8.5.2 upgrading package. | After system recovery with Version 8.0.4 recovery media, apply Version 8.5.2 upgrading package. |
| Other than above | Same as above. | Perform system recovery using Version 8.5.2 recovery media. |

The upgrade method and available models are the same as in version 8.5.1. Please refer to the description in the version 8.5.1 release notes "Upgrading" and "Models of Upgrading Available".

P/Ns of Production Available

| Control Unit P/N | | | Capture Module P/N | |
|------------------|------------------|-------------------|--------------------|-----------------|
| SYxB-2GP3 | SYxB-100GP4 | SYxB-10GR2 | SYxC-1G4N1-HP | SYxC-10G4N1-HP |
| SYxB-4GP2 | SYxB-200GP3 | SYxB-10GR2-C (*1) | SYxC-1G4N1-LE | SYxC-10G4N1-LE |
| SYxB-10GP3 | SYxB-2GR1-C | SYxB-10GR3 | SYxC-1G4N2-HP | SYxC-10G4N2-HP |
| SYxB-20GP2 | SYxB-2GR2-C | SYxB-10GR3-T | SYxC-1G4I1-LE | SYxC-25G2N1-HPL |
| SYxB-20GP1-R10 | SYxB-2GR2-CT | SYxB-20GR2 (*1) | SYxC-1G2N1-HPL | SYxC-25G4N1-HP |
| SYxB-40GP2 | SYxB-8GR1-C (*1) | SYxB-20GR3 (*1) | SYxC-10G2N1-HP | SYxC-100G2N2-HP |
| SYxB-50GP2 | SYxB-8GR2-C (*1) | | SYxC-10G2N1-LE | |

(*2) Can apply External Storages.

New Features

- 1) Added the ability to specify multiple IP addresses in the software flow filter. [#25977]
- 2) Allows users to choose to display IP addresses instead of domain names as address information to be displayed on the APM/NPM screen. [#25831]

- 3) Added the ability to notify users at SYNESIS GUI sign-in if there is an abnormality in the file system mount. [#26064]
- 4) Added the ability to log system recovery failures. [#26065]

Specification Changes since Version 8.5.1

- 1) Added utilization to the REST APIv2 "GET /stats" API response. [#27622]

Fixed Issues

- 1) Fixed an incorrect field (includeSuvDomains) being added to the HTTP header of packets when using the SYNESIS GUI or REST API for HTTPS communication, so that the correct field (includeSubDomains) is added. [#28070]
 - ✧ This issue occurred in all versions since 4.0.
- 2) Fixed an issue that prevented the delete-outdated-data command, which deletes old analysis results, from being executed in some cases. [#27982]
 - ✧ This issue occurred in all versions since 4.9.
- 3) Fixed an issue in SIP Register analysis that did not correctly extract phone number when the To field of a SIP Register packet contained a semicolon (;). [#28137]
 - ✧ This issue occurred in version 8.5.1.
- 4) Fixed an issue that caused the GUI screen to display abnormally in rare cases when various alert notifications (Syslog, SNMP Trap, and E-mail) were frequently generated. [#27858]
 - ✧ This issue occurred in all versions since 3.0.
- 5) Fixed an issue that caused slow response to trace file save requests via GUI or REST API when the number of capture sessions was large. [#27812]
 - ✧ This issue occurred in all versions since 3.0.
- 6) Fixed an issue that prevented the SYNESIS GUI from generating trace files for time ranges of less than 1 millisecond. [#27548]
 - ✧ This issue occurred in all versions since 3.0.

Limitations Added in This Version

- 1) Logging into the SYNESIS OS directly via GUI or via remote desktop while capturing and then performing any further operations on the desktop may result in packet drops. [#27221]
 - ✧ Occurs only when using capture module SYxC-1G4I1-LE.
- 2) SYNESIS using the following Control Unit cannot obtain storage-related logs.
 - ✧ SYxB-10GR2-C
 - ✧ SYxB-20GR3
- 3) SYNESIS using the following Capture Module cannot utilize NPB timestamps.
 - ✧ SYxB-10GR2-C

Nov 30, 2023, Version 8.5.1

Dec 13, 2023: Added " End of support for REST APIv1" to the specification changes since Version 8.0.

Dec 14, 2023: Added upgrade method for each model and current version.

Feb 27, 2024: Added #3 to “Specification changes since version 8.0”.

Feb 27, 2024: Added #3 to “Known Issues and Limitations Added in This Version”.

Upgrading

We provide 2 types of upgrading method, Upgrading Package and Recovery Media.

| | Upgrading Package | Recovery Media |
|----------------------------|---|---------------------------------|
| Operation | Applying the 2 packages in this order. 1. Extra Upgrading Package 2. SYNESIS V8.5 Package | Performing the system recovery. |
| Required Time | About 60~90 minutes. | About 90~120 minutes. |
| Existing Data and Settings | They will be kept. | They will be lost. |
| Applicable Version | V6.5.1 or later | All versions |
| Applicable Model | The models listed in the next section. | |

The upgrade method for each model and current version is as follows:

| Current version Models | Version 6.5-8.0 | Version 6.0 or earlier |
|--|--|---|
| SYX-P-CB-2G-3, SYX-P-CB-4G-2, SYX-P-CB-10G-3, SYX-P-CB-20G-2, SYX-P-CB-40G-2 | Apply Version 8.5.1 upgrading package. | After system recovery with Version 8.0.4 recovery media, apply Version 8.5.1 upgrading package. |
| Other than above | Same as above. | Perform system recovery using Version 8.5.1 recovery media. |

Models of Upgrading Available

| SYNESIS Portable | | SYNESIS Distributed | |
|------------------|----------------|---------------------|-----------------|
| SYX-P-CB-2G-3 | SYX-P-CB-40G-2 | SYX-P-HPB-100G-2 | SYX-D-CB-2G-1 |
| SYX-P-CB-4G-2 | SYX-P-CB-50G-1 | SYX-P-CB-100G-1 | SYX-D-HCB-8G-1 |
| SYX-P-CB-10G-3 | SYX-P-CB-50G-2 | SYX-P-CB-100G-2 | SYX-D-CB-10G-2 |
| SYX-P-CB-20G-2 | SYX-P-SB-80G-1 | | SYX-D-HPB-20G-2 |

P/Ns of Production Available

| Control Unit P/N | | | Capture Module P/N | |
|------------------|------------------|-----------------|--------------------|-----------------|
| SYxB-2GP3 | SYxB-100GP4 | SYxB-10GR2 | SYxC-1G4N1-HP | SYxC-10G4N1-HP |
| SYxB-4GP2 | SYxB-200GP3 | SYxB-10GR3 | SYxC-1G4N1-LE | SYxC-10G4N1-LE |
| SYxB-10GP3 | SYxB-2GR1-C | SYxB-10GR3-T | SYxC-1G4N2-HP | SYxC-10G4N2-HP |
| SYxB-20GP2 | SYxB-2GR2-C | SYxB-20GR2 (*1) | SYxC-1G4I1-LE | SYxC-25G2N1-HPL |
| SYxB-20GP1-R10 | SYxB-2GR2-CT | | SYxC-1G2N1-HPL | SYxC-25G4N1-HP |
| SYxB-40GP2 | SYxB-8GR1-C (*1) | | SYxC-10G2N1-HP | SYxC-100G2N2-HP |
| SYxB-50GP2 | SYxB-8GR2-C (*1) | | SYxC-10G2N1-LE | |

(*3) Can apply External Storages.

New Features

- 1) Added Gigamon trailer as a supported NPB timestamp. [#25050]
- 2) Added User API, Statistics API, and SIP Register Analysis API to REST APIv2. [#25729]
- 3) Support for log collection via CLI. [#24450]
- 4) Added the following functions to the channel status dialog that is displayed when the channel icon in the SYNESIS GUI is clicked. [#25005]
 - Display adapter name per channel.
 - Display the Adapter Profile screen of the Management Console by clicking the button.

Specification Changes since Version 8.0

- 1) Added "Waiting" as a state in which the saving operation has not yet started after the trace file is requested to be saved. [#25903]
- 2) Support for REST APIv1 was discontinued after Version 8.0.
 - Support has ended, but it is still possible to use REST APIv1.
 - If a new implementation uses the REST API, please use REST APIv2.
- 3) Packet replay in performance mode is available in this version for SYNESIS using the adapter SYxC-25G4N1-HP.

Fixed Issues

- 1) Fixed an issue that could cause the screen to become inoperable when logging in to the SYNESIS OS from the remote desktop and the main unit screen simultaneously. In addition, it is found that the same problem could also occur in rare cases after logging out of the SYNESIS OS, so this issue has been fixed as well. [#25510]
 - ◇ This issue occurred in all versions since 8.0.
- 2) Fixed an issue that caused the analysis module to hang up in the SIP Register analysis process when a To field containing none of the characters "@", ":", or ";" existed in the SIP Register Response packet to be analyzed. [#27006]
 - ◇ This issue occurred in all versions since 3.7.
- 3) Fixed an issue in which the adapter name of the adapter SYxC-1G2N1-HPL is incorrectly described as "Synesis Adapter NT 10Gbps/1Gbps x2" in the SYNESIS GUI. [#26488]
 - ◇ This issue occurred in all versions since 8.0.
- 4) Fixed an issue in which various bit rate values are incorrectly set to units of Kbps when saving NPM analysis results flow information in a CSV file. [#27202]
 - ◇ This issue occurred in all versions prior to version 8.5.
- 5) Fixed an issue in the VoIP filter that DNS traceback processing may result in the multiple extraction of DNS packets. [#26278]
 - ◇ This issue occurred in all versions since 6.0.
- 6) Fixed an issue in REST API 2.0 in which the second and subsequent filter creations rarely failed when software or hardware filters were created consecutively. [#26241]
 - ◇ This issue occurred in all versions since 6.0.

Known Issues and Limitations Added in This Version

- 1) In SYNESIS using the adapter SYxC-100G2N2-HP, if the OS is rebooted or the adapter profile is changed with a transceiver attached that does not match the link speed of the adapter profile, SYNESIS will stop functioning. [#26888]
 - ✧ This issue will occur in version 5.0 or later.
 - ✧ This issue can be avoided by removing the attached transceiver before changing the adapter profile.
 - ✧ If this failure occurs, restart the OS after removing the transceiver.
- 2) When the link on port 0 of the adapter SYxC-100G2N2-HP is up, the LED on the port 1 side lights up incorrectly.
 - ✧ This issue will occur in version 8.0 or later.
- 3) In SYNESIS using the SYxB-200GP3 control unit, when starting capture while receiving packets near the wire rate, a small amount of packet dropping may occur only for a few seconds right after the start.
 - ✧ This issue will occur in version 8.0 or later.