



SYNESIS Version 7.5.3 Release notes

Feb 20, 2023, Version 7.5.3 Rev.2

This document is V7.5.3 Release Notes Revision 2. The description of "Upgrading" and "New Shipment" have been updated from the one that can be referred from SYNESIS GUI.

Upgrading

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

	Upgrading Package	Recovery Media
Operation	Applying 1 or 2 package(s).	Performing the system recovery.
Required Time	About 30~60 minutes.	About 1~2 hours.
Existing Data and Settings	They will be kept.	They will be lost.
Applicable Version	V6.5.1 or later	All versions
Applicable Model	See the table and description below.	

The following table lists applicable models for Upgrading Package and Recovery Media. Both Control Unit and Capture Module are required to be listed.

Base Model	Control Unit	Interface Module	Capture Module
SYX-P-CB-2G-3	SYxC-2GP3	SYX-C-IL-SFP-B	SYxC-1G4N1-LE
SYX-P-CB-4G-2	SYxC-4GP2	SYX-C-IL-SFP	SYxC-1G4N1-HP
SYX-P-CB-10G-3	SYxB-10GP3	SYX-C-XL-SFP+-B	SYxC-10G2N1-LE
SYX-P-CB-20G-2	SYxB-20GP2	SYX-C-XL-SFP+	SYxC-10G2N1-HP
SYX-P-CB-40G-2	SYxB-40GP2	SYX-C-XL4-SFP+-B	SYxC-10G4N1-LE
SYX-P-CB-50G-1	SYxB-50GP1	SYX-C-XL4-SFP+	SYxC-10G4N1-HP
SYX-P-HPB-100G-2	SYxB-100GP2	SYX-C-LL-SFP28-B	SYxC-25G4N1-HP
SYX-P-CB-100G-1	SYxB-100GP3	SYX-C-CL-QSFP28-B	SYxC-100G2N2-HP
SYC-P-HPB-200G-2B	SYxB-100GP1-7300MAX		
SYX-D-CB-2G-1	SYxB-2GR1-C		
SYX-D-HCB-8G-1	SYxB-8GR1-C		
SYX-D-CB-10G-2	SYxB-10GR2		
SYX-D-HPB-20G-2	SYxB-20GR2		
SYC-10G-R-EQV	SYxB-20GR1-CP		

- The Base Model and the Control Unit in the same row mean same model.
- The Interface Module and the Capture Module in the same row mean same model.
- This version is not applicable for SYU-200G-HPP, but it will be for V8.0.
- "Control Unit" and "Capture module" may not match with the items of the Product Name of the SYNESIS unit. You can confirm the "Control Unit" name and "Capture Module" name listed above table by the sticker on the product, or by accessing to the SYNESIS GUI and moving to "Configuration" - "About SYNESIS" screen.

New Shipment

In this version, the SYNESIS consisted of the following parts can be shipped.

Control Unit			External Storage	Capture Module
SYxB-2GP3	SYxB-50GP1	SYxB-2GR1-C	SYxE-8GR1-C	SYxC-1G4N1-HP
SYxB-4GP2	SYxB-50GP2	SYxB-8GR1-C	SYxE-20GR2	SYxC-1G4N1-LE
SYxB-10GP3	SYxB-100GP2	SYxB-10GR2	SYxE-20GR1-CP	SYxC-10G2N1-HP
SYxB-20GP2	SYxB-100GP3	SYxB-20GR2		SYxC-10G2N1-LE
SYxB-20GP1-R10	SYxB-100GP4	SYxB-20GR1-CP		SYxC-10G4N1-HP
SYxB-40GP2				SYxC-25G2N1-HPL
				SYxC-25G4N1-HP
				SYxC-100G2N2-HP

Fixed Issue

- 1) Fixed an issue in which the workspace would not display anything when clicking [Agent] on the main menu or the configuration button on the toolbar menu if the pattern string of a pattern filter created with the RESTful API 2.0 contained double quotation, backslash, or vertical bar marks. [#23704]
 - This issue occurred in all versions since 6.0.
- 2) Fixed an issue in which the workspace would not display anything when clicking [Agent] on the main menu or the configuration button on the toolbar menu if the pattern string of a pattern filter created with the SYNESIS GUI contained vertical bar marks. [#23704]
 - This issue occurred in all versions since 3.5.
- 3) Fixed an issue that caused an error with code: 499-6 when requesting to save a trace file using RESTful API 1.0. [#23980]
 - This issue occurred in version 7.5.1 and 7.5.2.
- 4) Fixed an issue in which OMSA information in logs obtained by the Management Console was sometimes incorrect. [#23974]
 - This issue occurred in all versions since 4.0.
- 5) Fixed an issue that in the SYNESIS Portable, sometimes the attached keyboard and touchpad don't work after SYNESIS booted.
 - This issue occurred in version 6.5, 7.0, and 7.1. Already fixed in version 7.5.1.

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Fixed Issue

- 1) Fixed an issue that caused the NetKeeper service to restart when multiple trace file saves were requested sequentially, and a new trace save was requested immediately after the currently running trace save was canceled. [#23447]
 - This issue occurred in all versions since 5.0.
- 2) Fixed an issue in which a confirmation dialog for upgrading to Ubuntu 22.04.1 LTS was displayed when login to the SYNESIS operating system with a console. [#23474]
 - This issue occurred in all versions since 6.5.

New Features

- 1) Added the ability to delete analysis data by selecting capture sessions or specifying time range. [# 21519]
- 2) Added the ability to re-analyze capture sessions that have already been analyzed. [# 21519]
- 3) Allowed to generate divided sessions with overlapping time ranges. [# 21519]
- 4) Added the ability to download split trace files together in tar format. [#19493]
- 5) Added the ability to select SCTP as a protocol in the L3 protocol filter and protocols filter. [#10927]
- 6) Added the ability to decode the timestamps of Ethernet trailers added by the network packet broker of VSS Monitoring, and to analyze APM/NPM and microburst based on those timestamps. [#4851]
- 7) Added the ability to disable the selection of "Local Authentication Mode" at sign-in when using external authentication. [#22150]
- 8) Support for displaying time synchronization information of NTP servers and adapters. [#21469]
- 9) Support for synchronizing the time with NTP servers immediately in step mode when there is a large time difference with the NTP server. [#21469]
- 10) Added the ability to set the "prefer" option for NTP servers. [#21469]
- 11) Support for displaying firewall information on the Management Console. [#16987]

Specification changes since version 7.0

- 1) The port number specified in the flow filter now also matches SCTP. SCTP packets can be extracted by this filter. [#10927]
- 2) All date/time information parameters returned by the SYNEISIS RESTful API 2.0 are now unified into a format like "2022-09-11 15:27:57.000". [#22652]
- 3) Migrated the management of SYNEISIS services from the SystemV-based method to the systemd-based method.

Vulnerabilities and Countermeasures

- 1) [CVE-2004-2734,CVE-2014-0053,CVE-2014-2857,CVE-2014-2858] Fixed the Secure and HttpOnly attributes of cookies to be set to True in all HTTP responses sent from SYNEISIS.
- 2) Disabled TCP timestamp option.
- 3) Fixed to reject HTTP access to Tomcat administrative area.
- 4) Updated the vulnerable 3rd party libraries to a version that fixes the vulnerability.

Fixed Issues

- 1) Fixed an issue in which packets split by IP fragments could not be extracted to the trace file when port number was not specified in the flow filter. [#21433]
 - This issue occurred in all versions since 5.5.
- 2) Fixed an issue in which the upper limit size of the split trace file was not reset to the factory default even after initialization of SYNEISIS. [#21531]
 - This issue occurred since 7.0.
- 3) Fixed an issue in which file name was displayed as garbled characters when uploading a backup file created with Version 7.0 SYNEISIS. [#21537]
 - This issue occurred since 7.0.

- 4) Fixed an issue in which trace files could not be downloaded by accessing URLs included in information obtained by "GET /traces/{saveTraceTaskUuid}" or "GET /traces/all" of the RESTful API 2.0. [#21630]
 - This issue occurred in all versions since 6.5.
- 5) Fixed an issue in the CLI packet replayer where the number of packet bytes displayed in non-performance mode did not match the actual number of bytes sent. [#22842]
 - This issue occurred in all versions since 5.0.
- 6) Fixed an issue where the status bar indicating the progress of the APM/NPM analysis sometimes did not advance from 0%. [#21616]
 - This issue occurred in all versions since 3.5.
- 7) Fixed an issue in the VoIP filter that could not extract SIP packets containing the corresponding service URN even if an emergency call number was specified. [#23051]
 - This issue occurred in all versions since 5.5.
- 8) Fixed an issue in which an incorrect value was displayed for "Netmask" in [Network (IPv4)] of the Management Console. [#22181]
 - This issue occurred in all versions since 6.5.
- 9) Fixed an issue in which Email Notification settings were not backed up during backup/restore of settings. [#23296]
 - This issue occurred in all versions since 6.5.
- 10) Fixed an issue in which unavailable functions were shown in the GUI menu when initializing SYNESIS on models with SYxC-100G2N1-HP as the capture module. [#23423]
 - This issue occurred in all versions since 6.5.
- 11) Fixed an issue in which tomcat stopped outputting logs when the size of the log file "polyvirtual_portal.log" reached 10 MB. [#23286]
 - This issue occurred in all versions since 6.0.

Known Issues and Limitations added in this version

- 1) When the total number of filters including capture filters reaches around 19000, none of the items appear in the filter list and capture filter list. [#21579]