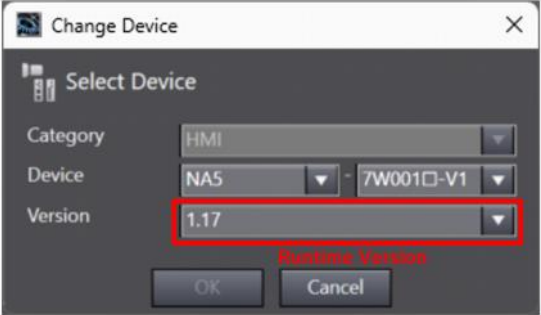# System Program and Runtime

Description

This section describes on the system program version and the runtime version.

The HMI consists of two software: the system program and the runtime.
System program: This is the software necessary to start the HMI and execute the runtime.
Runtime: This is the middleware for executing the project. The runtime is launched from the system program and manages the execution of the project.

Therefore, the following measure is required if the system program version of the HMI when downloading the project is not compatible with the runtime version of the transferred project;

・**Update the system program version of the HMI.**

Refer to the procedures described in the link for checking the versions and updating when necessary.
Procedures When the System Program Versions Do Not Match

Remarks

The following shows the correspondence between the system program version and the runtime version.

Sysmac Studio	NA5-□□□□□□		NA5-□□□□□□-V1[*1]		Soft-NA	
	Runtime	System program	Runtime	System program	Runtime	Soft-NA
1.10	1.00	1.1.0	-	-	-	-
1.11 to 1.12	1.01[*2]	2.0.0	-	-	-	-
1.13	1.02[*3]	3.0.3	-	-	-	-
1.14	1.03[*4]	4.3.3	-	-	-	-
1.15	1.03[*4*5]	4.4.1	-	-	-	-
1.16	1.05[*4]	5.0.3	-	-	-	-
1.17	1.07[*4]	5.1.5	-	-	-	-
1.18	1.08[*4]	5.1.5	-	-	-	-
1.19	1.08[*3]	5.2.2	-	-	-	-
1.20	1.08[*4]	6.0.2	-	-	-	-
1.23	1.09[*4]	7.0.5	-	-	-	-
1.24	1.10[*4]	7.1.2	-	-	-	-
1.24.2	1.10[*4]	7.2.1	-	-	-	-
1.26	1.10[*4]	7.3.0	-	-	-	-
1.27	1.11[*4]	7.3.0	-	-	-	-
1.31	1.12[*4]	7.4.0	-	-	-	-
1.40	1.13[*4]	8.0.0	1.08	6.0.2	1.11	1.01
			1.09	7.0.5		
			1.10	7.4.0		
			1.11	7.4.0		
			1.12	7.4.0		
			1.13	8.0.0		
1.43	1.14[*4]	8.0.0	1.14	8.0.0	1.11	1.01
1.44	1.14[*4]	8.1.0	1.14	8.1.0	1.11	1.01
1.45	1.15[*4]	9.0.0	1.15	9.0.0	1.12	1.02
					1.13	
					1.14	
					1.15	
1.50	1.16[*4]	10.1.0	1.16	10.1.0	-	-
1.52	1.16[*4]	10.2.0	1.16	10.2.0	-	-
1.54	1.17[*4]	11.0.0	1.17	11.0.0	1.16	1.02
					1.17	

*1. NA5-□□□□□□-V1 supports only Runtime Ver.1.08 or higher.

*2. The projects created in version 1.00 are converted to version 1.01.

*3. The projects created in either version 1.00 or 1.01 are converted to version 1.02.

*4. Projects created in version 1.00, 1.01, or 1.02 are converted to version 1.03.

*5. The runtime version will be converted to 1.04 if the HMI Extended Option is enabled.