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1. Overview

This article describes the steps to replace MC Works64 with GENESIS64 Advanced Version 10.97.

This article is for standard features.

If you are using the following functions, please contact Mitsubishi Electric branch office.

- ReportWorX64/ ReportWorX Lite (32bit)
- BridgeWorX64/ BridgeWorX Lite (32bit)
- AlarmWorX64 Multimedia (MMX)
- ScriptWorX
- AX Energy
- AX Quality
- AX Quality
- Redundant feature

2. About GENESIS64

2.1. GENESIS64 Version 10.97 System Requirements

See the **"Getting Started Guide"** in the GENESIS64 product catalog or product installer to learn more about system requirements.

2.2. MC Works64 and GENESIS64 Compatibility Notes

Some of the settings you create in MC Works64 will not be available in GENESIS64 Version 10.97 or later.

Table 1 Features not available in GENESIS 64

Feature name	What to do
Triggers	Triggers settings created in MC Works64 Version 10.94 or earlier versions are not available. It is necessary to re-create the same settings as the previous settings.
AX Energy	AX Energy settings created in MC Works64 are not available. You must re-create the settings using "Energy AnalytiX", a feature equivalent to AX Energy.
MC AppBuilder	This feature is not supported in GENESIS64 version 10.97. We plan to introduce this feature in the next version.

Process	This feature is not supported in GENESIS64
program	version 10.97.
coordination	We plan to introduce this feature in the next
function	version.
GraphWorX64	GraphWorX64 scripts created in MC Works64 are
Script	not guaranteed to be compatible.
	GENESIS64 may not work properly.

Upgrading to GENESIS64 version 10.97 enhances a variety of features. Therefore, please confirm the operation after replacing MC Works64 with GENESIS64 offline before running it in a production environment.

3. About the Replace procedure

To replace MC Works64 with GENESIS64, follow these steps. If you have any questions about the operation, please contact Mitsubishi Electric branch office.

- Back up
- Kill license
- MC Works64 uninstall
- GENESIS64 installation
- License replacement
- Restore backups

This article is an example of MC Works64 version 10.95. Since there are differences in UI etc. depending on the version, please change the following steps to match the customer's environment.

4. Back up

Before uninstalling MC Works64, we recommend that you back up the database that contains the display files and application settings ("Configuration DB").

Use this back up to restore MC Works64 settings or migrate settings to MC Works64 on other PC in the event of a problem.

In this article, the backup files are stored on the back up media.

4.1. GraphWorX64 display file

Back up display files created with GraphWorX64.

Backup procedure

1. Copy the GraphWorX64 display file to the backup media.

Note: Display files published on WebHMI are stored in the following location.

"C:¥Program Files¥MELSOFT¥MC Works64¥WebSites¥PubDisplay"

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4.2. Workbench Configuration DB

Back up the settings you created in Workbench.

Backup procedure

- 1. Check the settings DB that Workbench refers to.
 - Start [Workbench] \rightarrow [Project Explorer] \rightarrow Right-click [Project Name] \rightarrow "Configure Application(s) settings" \rightarrow [Project Applications] \rightarrow Check the DB that each application is referring to from the "Catalog".

MyProje				
Full Path:	MyProject			[PROJECT] [MEIA8A47]
Name:	MyProject			
Project /	Applications			-
	Name	SQL Server	Catalog	Local Ca
4 🗸	AlarmWorX64 Logger	(local)\SQLEXPRESS2014	MCUnifiedConfig	С
⊸ ✓	AlarmWorX64 Server	(local)\SQLEXPRESS2014	MCUnifiedConfig	
⊡ √	AlertWorX	(local)\SQLEXPRESS2014	MCUnifiedConfig	С
⊸ ✓	Assets	(local)\SQLEXPRESS2014	MCUnifiedConfig	E
4	AX Energy			
4	AX Facility	(local)\SQLEXPRESS2014	MCUnifiedConfig	
₲	BACnet	(local)\SQLEXPRESS2014	MCUnifiedConfig	С
- ✓	BI Server	(local)\SQLEXPRESS2014	MCUnifiedConfig	E
4	Bridging	(local)\SQLEXPRESS2014	MCUnifiedConfig	
	Databases	(Incoll) SOLEVIDESS2014		

Figure 1 settings

2. Back up the **DB: "MCSetup"** that contains the DB and MC Works64 project data that you found in step 1.

Start [SQL Server Management Studio] \rightarrow [Object Explorer] \rightarrow Right-click [Target DB] \rightarrow "Tasks" \rightarrow "Back Up..." \rightarrow [Back Up Database] \rightarrow Set the output destination directory and file name from "Destination".

Select a page	🔊 Script 🔻 🚺 Help			
Media Options	Sauce			
	Database:	Continuation DR		
	Recovery model	CIMPLE		
	Backup type:	E.a.		
	Copy-only backup	1 Quit		
	Backup component:			
	(e) Database			
	 Files and filegroups: 			
	Destination			
	Back up to:	Disk.		
	COMParture hat			
	Crebackup bak		Add	
Connection			Remove	
Server: MEIA8A47WSQLEXPRESS201	4		Content	
Connection: MELCOWWV18526				
View connection properties				
Progress				
C Ready				

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Figure 2 Back Up Database

- 3. Click the "OK" button.
- 4. Make sure that the backup file is created in the destination directory and copy it to the backup media.

4.3. Logging data

Back up data accumulated during MC Works64.

4.3.1. MC Historian

Back up MC Historian's logging data.

Backup procedure

- Check the MC Historian's logging data destination directory. Start [Workbench] → [Project Explorer] → [Historical Data] → [Loggers & Groups] → Double-click on [Logger Name].
- 2. Check the "Data Store Directory".

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APPLICATION NOTE

Data Lo	gger		
Full Path:	MyProject/Histo	rical Data/MC Historian/Loggers & Groups	[MC HISTORIAN LOGGER] [MEIA8A47]
Name:	Data Logger		
Logger Ty	pe: Dis	k Logger	
File Stora	ge Information	Archiving Information	
Storage	:		ـ
Storage	Mode:	Universal Mode	-
Data Sto	ore Directory:		
Max Log	gger Files To Sea	rch For Values: 4 🗘	
Time Zo	ne:	● Use local server time ○ Use UTC	
Recurre	nce type:	Time interval	 Preview
Starting	at:	2021年2月19日 14:30:58	
Recur e	very:	D 1 1 H 0 1 M 0 1	S 0 🛟 (dd.hh:mm:ss)
This lo	gger will not be	able to work with the data logged before 202	21年2月19日.

Figure 3 Logger

- 3. If you have archiving settings, **"Archiving Information"** tab → Check the **"Data Archive Directory:"**.
- Open the directory you have checked and copy the "hhd file" to the backup media.



Figure 4 hhd file

Note: If no directory is specified, an **"hhd file"** is stored in the following directory.

Data Store Directory

"C:¥ProgramData¥ICONICS¥HyperHistorian¥Data¥Data Logger" Archive Directory

"C:¥ProgramData¥ICONICS¥HyperHistorian¥Archive¥Data Logger"

4.3.2. AlarmWorX64 Logger

Back up alarm and event history of AlarmWorX64 Logger.

Backup procedure

 Check the DB where you want to store the logging data for AlarmWorX64 Logger.

Start [Workbench] \rightarrow [Alarms and Notifications] \rightarrow [AlarmWorX64 Logger] \rightarrow [Configurations] \rightarrow Double-click [Configuration Name].

2. Check for a "Use a custom database for logging".

Name: Alarms	
torage Archiving and Redun	Idancy Printing Alarm Subscription
General Settings	^
 Enable Database Logging Enable Squelch Use a custom database for 	or logging
Connection String: (Configure connection)	Provider=SQLNCLI11.1;Data Source=(local)\SQLEXPRESS2014;Initial Catalog=MCUnifiedConfiq:Integrated Security=SSPI;Connect
	Timeout=60;MultipleActiveResultSets=True;Persist Security Info=True
Table Name:	Timeout=60;MultipleActiveResultSets=True;Persist Security Info=True
Table Name: Max Connection Period:	Timeout=60;MultipleActiveResultSets=True;Persist Security Info=True AlarmLog 60 (minutes)
Table Name: Max Connection Period: Alarm Cache Size:	Timeout=60;MultipleActiveResultSets=True;Persist Security Info=True AlarmLog 60 (minutes) 10,000
Table Name: Max Connection Period: Alarm Cache Size: TimeZone:	Timeout=60;MultipleActiveResultSets=True;Persist Security Info=True AlarmLog 60 10,000 ()

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Figure 5 AlarmWorX64 Logger

- 3. If there is a check, check the destination DB from the "Connection String:".
- Back up the DB in the same way as for **0.Note: Display** files published on WebHMI are stored in the following location.
- "C:¥Program Files¥MELSOFT¥MC Works64¥WebSites¥PubDisplay" Workbench Configuration DB.
- 4. If unchecked, the logging data is stored in the Configuration DB in AlarmWorX64 Logger.
- There is no need to back up again because it has been backed up in the **0.Note: Display** files published on WebHMI are stored in the following location.
- "C:¥Program Files¥MELSOFT¥MC Works64¥WebSites¥PubDisplay" Workbench Configuration DB.

4.4. Other data

If necessary, back up the data used in the monitoring system outside of the MC Works64 management function.

5. Kill license

Before uninstalling MC Works64, you must disable the license. Note: If you uninstall MC Works64 before you disable the license, you will not be able to use the applied license. In that case, please contact Mitsubishi Electric branch office.

Kill license procedure

- 1 Start [License Utility].
- 2 Click "Kill Current License" button.

ICATION NOTE



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🕴 Softwar	e Lice	nse Activat	ion	-		×
File Lic	ense	Help				
	Sof	tware	Lice	ensi	ng	
Informati	on					
Site Code	× (8)	41 B 🔅 🍽	X 8393	• (• 31	193	
Site Key:		62 CFR 8		5 ° F 3 °	ាមនា	
PNumber	s: h.1	SESTORE P	49676	-		
		Copy P	Number	s to Cli	pboard	
License I	ile					
					Browse	
		Activat	e Licen	se		
		Activate 7	Frial Lic	ense		
		Kill Curre	ent Lice	nse		
		Kill Curre	ent Lice	ense nse		

Figure 6 License Utility

In the [confirmation dialog], click "Yes" button. 3

The [License Killed] screen appears. 4 Make sure the "Kill file" is created in the directory shown in "License information displayed below and written to:".

- 5 Open the website "MITSUBISHI Web Licensing Site". "http://www.mcworkslicensing.com/"
- Log in to the site and select "Software" or "Hardware", 6 depending on the type of license you are using.
- Click the "Kill License" tab. 7



Figure 7 MITSUBISHI Web Licensing Site

- Enter information based on the "Kill file" output in step 4. 8
- Click the "Remove Key" button to complete the license 9

deactivation.

6. MC Works64 uninstall

Uninstall MC Works64. Let's take Windows10 as an example.

Uninstall procedure

- [Windows Settings] Please open. 1
- 2. [Apps] Please select.
- 3 Select the application below and click Uninstall.
 - MELSOFT Help
 - **MELSOFT MC Demo**
 - MELSOFT MC Historian
 - MELSOFT MC Works64
 - MELSOFT MC Works64 Language Pack

After uninstalling all applications, please delete the folder below. 4

- "C:¥Program Files¥MELSOFT¥MC Works64"
- "C:¥Program Files¥Common Files¥ICONICS"
- "C:¥ProgramData¥ICONICS"

GENESIS64 installation 7.

Install GENESIS64.

This article describes the steps added in GENESIS64 Advanced Version 10.97 and the settings for continuing to use the Configuration DB created in MC Works64. For other steps, see the "Getting Started Guide".

If you want to use a different SQL Server than the one used by MCWorks64, backup with 4.2.Workbench Configuration DB and restore it with 9.2.Workbench Configuration DB: Restore before installing.

Installation procedure

- Run the installation from the GENESIS64 DVD or ISO file. 1
- Follow the installation prompts. 2
- 3 In GENESIS64 Version 10.97 and later, we recommend that you use the security features of GENESIS64.

You must create an administrator user for the GENESIS64 security feature during installation.

Enter your administrator username and password.



Please specify an adm ensure that your syst For brand new security for existing security of administrator privilege For existing security of administrative privileg	ninistrator user that tem is secured after ty configurations, thi configurations in data es, configurations in Acti es; however, if the	will be used to log in the i the installation. is user will be created an abase mode, the user will ive Directory mode, the ir user does not exist, no c	GENESIS64 applica d granted administ be added if neces installation will gran hanges will be mad	tions. This will rator privileges. isary and granted it that user le to the
configuration.	Ű.			
user Name:				
Password:				
Confirm Password:				
I want to install a Jnless a preconfigure meaning a login will no All installed application applications running a	demonstration syste d security configura of be required to acc ns will be running and nd configurable unti	m. I understand that my tion is selected, security ess the GENESIS64 applii d configurable. (A secure I manually enabled by the	system will not be will be running in T cations. system will have o user, and will req	secure, esting mode, only core uire a login.)
applications running a	nd configurable unti	i manually enabled by the	user, and will req	uire a login.)
alishield		-		
		< Back	Next >	Cancel

Figure 8 GENESIS64 User Settings

- 4. Goto the [Database Server] screen.
- 5. In **"Database server that you are installing to:"** select SQL Server where the MC Works64 Configuration DB exists.
- 6. In **"Databases Creation"**, Check only **"Upgrade all** Configurations".

Note: Please note that if there is a check on other items, the contents of the Configuration DB will be initialized.

ICONICS Suite - InstallShield Wizard Database Server Select database server and authentication method. Database server that you are installing to:	× ► iconics
	Display the second

Figure 9 Database Server

- 7. Continue to follow the installation instructions.
- 8. On the [System Setup] \rightarrow "Use an existing project database:"



Figure 10 System Setup screen

9. Continue to follow the installation instructions to complete the installation.

8. License replacement

8.1. License upgrades

Please contact Mitsubishi Electric branch office to change your MC Works64 license to a GENESIS64 license.

8.2. Apply licenses

Please refer to the "4 ICONICS Software License" chapter of the "Getting Started Guide" in the product installer to apply the license. Note: Since GENESIS64 is used, please use the following website. ICONICS Web Licensing site:

https://licensing.iconics.com/Default.aspx

If you apply the license on the MITSUBISHI Web Licensing site, you will not be able to use the license.

In that case, please contact Mitsubishi Electric branch office.

9. Restore backups

Learn how to use Configuration DB and GraphWorX64 files backed up with MC Works64 in GENESIS64.

9.1. GraphWorX64 display file

Open the display file created in MC Works64 in the GENESIS64 environment and save it over.

Note: An error message may be displayed when opening GraphWorX64, but the error will be eliminated by overwriting and saving.

APPLICATION NOTE

9.2. Workbench Configuration DB: Restore

Restore files backed up by **4.2.Workbench Configuration DB** to SQL Server.

This is required if you want to use SQL Server that is different from the SQL Server used in MC Works64. This is not required if you want to continue using SQL Server that you used in MC Works64.

Restore procedure

- Start [SQL Server Management Studio] → [Object Explorer] → Right-click [Databases] → "Restore Database..." → "Source" → "Device" → Select button to open the [Select backup devices] screen.
- 2. Select a backup file.
- 3. After confirming that it is the file you want, click the "OK" button to complete the restore of the DB.

🗏 Restore Database - Configuratio	in_DB				-		×
 Ready 							
Select a page Constant and a select a	Script • 📑 Help						
	 Device: Database: 	C:¥Program Files¥M Configuration_DB	icrosoft SQL	Server¥I	MSSQL12.SQLEXPRESS2014¥M] .	~
	Destination Database: Restore to:	Configuration_DB	en (2021年2月	9日 11:	46:18)	Timeline.	~
	Restore plan Backup sets to restore: Restore Name		Component	Туре	Server	Databa	se
	Configuration_DB-Fi	ull Database Backup	Database	Full	MEIA8A47¥SQLEXPRESS201-	4 Config	urat
Connection WEIABA47VSQLEXPRESS2014 [MELCO¥WV16526] View.connection properties							
Progress One Done	<				Verify B	ackup Mer	> dia
					OK Cancel	Help	

Figure 11 Back Up Database

9.3. Workbench Configuration DB: Upgrade

If you want to continue using the settings you created in MC Works64, you must upgrade the Configuration DB.

The Configuration DB referenced by the active project has already been upgraded by **7.GENESIS64 installation**.

If you want to continue using the Configuration DB for other projects, you will need to upgrade in the following ways:

Upgrade instructions

 [Workbench] → [Project] ribbon → [Database Management] → Please select an "Upgrade". [Upgrade one or more applications] → Select the Configuration DB you want to upgrade from "Database:", and then click the "Download configurations" button.

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3. At the bottom of the screen, make sure that you see a list of applications that are included in the Configuration DB.

connection Setting	<u>js</u>		
SQL Server: (local)	SQLEXPRESS2017		•
Database: MCUr	nifiedConfig		
Backup the data	base before the upgrade		
Execute the upg	rade in a transaction		
		Download co	onfigurations
Application N	lame Supported V	ersion Current Ver	sion
Application M	Logger 3.6.0.0	Current Ver 3.5.0.0	sion
Application N AlarmWorX64 AlarmWorX64	lame Supported V Logger 3.6.0.0 Server 8.23.0.0	ersion Current Ver 3.5.0.0 8.22.0.0	sion
Application N AlarmWorX64 AlarmWorX64 AlarmWorX64 AlartWorX	Iame Supported V Logger 3.6.0.0 Server 8.23.0.0 10.6.0.0	ersion Current Ver 3.5.0.0 8.22.0.0 10.1.0.0	sion
Application N AlarmWorX64 AlarmWorX64 AlertWorX Assets	lame Supported V Logger 3.6.0.0 Server 8.23.0.0 10.6.0.0 2.4.0.0	ersion Current Ver 3.5.0.0 8.22.0.0 10.1.0.0 1.30.0.0	sion

Figure 12 Upgrade one or more applications

4. If you select the **"Upgrade"** button and the success dialog appears, the upgrade is complete.

9.4. Logging data

9.4.1. MC Historian

Store the **"hhd file"** backed up by **4.3.1.MC Historian** in the directory confirmed in **4.3.1.MC Historian** step 2.

Note: If the corresponding directory does not exist, create it manually.

9.4.2. AlarmWorX64 Logger

Restore the DB backed up by **4.3.2AlarmWorX64 Logger** by referring to the **9.2.Workbench Configuration DB: Restore** procedure.