For Sumitomo Fusion Splicer

Maintenance Application

User Guide
END-USER LICENSE AGREEMENT FOR SOFTWARE

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0. Introduction

The Maintenance Application is the PC software specially designed for Sumitomo fusion splicers and always used with a splicer connected via USB cable for the purpose of not only updating splicer software but also taking remote diagnosis support from your regional maintenance center.

Please read this manual carefully and keep a suitable storage for reference.

Note: The Maintenance Application supports the TYPE-71C/M12, TYPE-Q101-CA/M12, TYPE-81C/M12, and Z1C splicers.

(“Monitor / PC Operation” and “Remote control” functions are not available on the Z1C.)

Recommended system requirements
Operating System: Windows 7, Windows Vista, Windows XP SP3 or later
Processer: Intel Pentium III 1.2GHz or faster
Memory: 2GB or more
HDD: Minimum 1GB of capacity (more than 1GB of hard disc space)
Network: Ethernet (1Mbps or better)

Required item
A USB cable (2.0 mini-B type)

Procedure overview

Download the Maintenance Application to a PC.
(Refer to Chapter 1.)
Install the Maintenance Application on the PC.
(Refer to Chapter 2.)
Use the Maintenance Application.
(Refer to Chapter 3.)
1. Downloading the Maintenance Application

1-1. Visual C++ 2010 Runtime Library / Microsoft .NET Framework 4

To use the Maintenance Application, Visual C++ 2010 Runtime Library and Microsoft .NET Framework 4 are required.

<Visual C++ 2010 Runtime Library>
If Visual C++ 2010 Runtime Library is not installed on the PC, the installer for the Visual C++ 2010 Runtime Library automatically starts before the Maintenance application is installed. For more information, please see page 8~9.

<Microsoft .NET Framework 4>
First make sure that the PC has the Microsoft .NET Framework 4 installed. And if not, download it from Microsoft web site.
Even If you start installing the Maintenance Application without the Microsoft .NET Framework 4 installed, a pop-up window will appear prompting you to install it first before installing the Maintenance Application.
(For more information, see page 9.)
1-2. Logging in to Maintenance Application download page

To download the Maintenance Application, open your web browser and go to Sumitomo internet service system web site [http://www.rim-plus.sei.co.jp/](http://www.rim-plus.sei.co.jp/). (The web site address is also stated in the splicer operation manual.) Scroll down the page and click the link in the Download section.

The Login page is displayed. You are required to enter the serial number (12 digits) of the splicer you have. Then click “Login”.

Enter the serial number (12 digits.)

Click “Login”.
1-3. Downloading the Maintenance Application

The Maintenance Application download page is displayed. Click the link in the page to download the Application file.

Note: The Maintenance Application file is common for the TYPE-71C/M12, TYPE-Q101-CA/M12, TYPE-81C/M12 and Z1C splicers.

Click this link.

“END-USER LICENSE AGREEMENT FOR SOFTWARE” is displayed. Click “Agree”.

Scroll down

Click “Agree”. 

Click “Agree”.

Click “Agree”. 

Click “Save” to save the Application file “installer_user.exe” to the PC.
(The example below is from Windows 7 but the same procedure works for Windows XP SP3.)

Proceed to install the Maintenance Application on the PC.
2. Installing the Maintenance Application on the PC

2-1. Installing the Maintenance Application on the PC

(The example below is from Windows 7 but the same procedure works for Windows XP SP3.)

Open the folder where “Installer_user.exe” file has been saved and double click the file to start to install on the PC.

-1. If “Visual C++ 2010 Runtime Library” is not installed on the PC, a pop-up window that prompts you to install it first will automatically appear. Install the software following the on-screen instructions. “Visual C++ 2010 Runtime Library” is necessary for running the Maintenance Application on the PC. Do not skip the installation process.

Continue to the next page.
After completing the installation, click “Finish”. (No need to re-boot the PC.)

-2. If “Microsoft .NET Framework 4” is not installed on the PC, a pop-up window that prompts you to install it will automatically appear. Install the software following the on-screen instructions. “Microsoft .NET Framework 4” is necessary for running the Maintenance Application on the PC. Do not skip the installation process.

The installation starts.
After the installation is completed, the Maintenance Application installer automatically appears. Follow the on-screen instructions to install.

Select “I Agree”.

Continue to the next page.
Installation starts.

A pop-up window that prompts you to install VCM codec appears during the installation. This is necessary for running “REC” function properly. (See page 23.) Click “Yes” to proceed to the next step.

Continue to the next page.
If you see the screen below, you’ve successfully installed the Maintenance Application on the PC. Click “Close”.  

**Note:** It is not necessary to reboot the PC after the installation.
A short cut icon is automatically created on the desktop.
2-2. Installing the USB driver on the PC

**Note:** Before starting the Maintenance Application, close all other Applications.

The USB driver can be automatically installed on the PC when a splicer is first connected to the PC via USB. When you start the Maintenance Application for the first time, you should see the following screen on the PC. Proceed as the on-screen instruction shows you.

To start the Maintenance Application, click the shortcut icon on the desktop or run “**MainteApp.exe**” in the Fusion Splicer Maintenance Tool folder*. (*C:¥Program Files¥Fusion Splicer Maintenance Tool)

![Driver setup](image1)

In some cases (depending on the PC’s account types), a warning message will first pop up. Disregard it and click **Yes**.

![Windows Security](image2)

After the USB driver is installed on the PC, the Maintenance Application will start up. (For further details on how to use the Application, see Section 3.)

![Information](image3)

![Fusion Splicer Maintenance Application](image4)
2-3. Uninstalling the Maintenance Application

If you do not need the Application any longer, carry out the uninstallation procedure below.

*Note: It is not necessary to uninstall an old version Maintenance Application before installing a newer version one.*

*<Windows 7 >*

Click the Start button. Select “Control Panel” > “Programs” > “Programs and Features”. Select and highlight “Fusion Splicer Maintenance Tool” from the list of “Uninstall or change a program”. Right click it and select “Uninstall”.

![Uninstalling the Maintenance Application](image-url)
Completed.
Click the Start button. Select “Control Panel” > “Add or Remove program”. Select and highlight “Fusion Splicer Maintenance Tool”. Click “Remove”. 

Completed.
3. Using the Maintenance Application

3-1. Starting the Maintenance Application

Note: Before starting the Maintenance Application, close all other Applications. Make sure that internet connection is available.

Start the Application by clicking the short cut icon on the desktop or running “MainteApp.exe” in the Fusion Splicer Maintenance Tool folder*. (*C:\Program Files\Fusion Splicer Maintenance Tool)

Referring to the on-screen instructions, switch on the splicer and connect the splicer with the PC via USB cable.

While the Maintenance Application window is displayed, the splicer is verified via internet in the background.

Note: If the connection between the splicer and Application fails, an error message will appear. Reboot the splicer and try again.

When the Application can detect the fusion splicer and receive the information from the splicer correctly, the start screen is displayed.

Caution: If the Maintenance Application has an access out of the sales area which is set in the splicer, a message shown below appears. To proceed to start the splicer, a message shown below appears. To proceed to start the splicer, Click “OK”. The Application can be used but Software update and Remote control functions have a limitation on the number of access.
<Maintenance Application Start Screen>

**Fusion splicer software update indicator**
- The current software version is the latest.  
  (No need to update.)
- New software version is available.

**Network settings**
- If you need proxy server settings, click this icon and do the settings.

**Side menu bar**
- When you select a function, the screen of the function appears on the right side screen.  
  (For further details on each function, see page 21~40.)

**S/N verification indicator**
- The serial number is verified correctly by the SEI server via internet.
- The serial number is not verified by the SEI server via internet.

<IMPORTANT>
Before updating software on the splicer or taking remote control support by service center, select "Permit", the Maintenance Application can send the current state of the splicer to the SEI server via internet.

Select “Permit” before updating the software or taking remote control support.

To upload the splicer settings, splice data, error logs and images stored in the splicer to the SEI server, click “Upload”. This may be useful for service center that will carry out remote control.

Upload to the SEI Server
The following information will be updated to SEI server.
- Splicer settings
- Splice data
- Error log
- Image history
If the data upload is successful, a pop-up window shown below will tell this to you.

![Information Window](image1)

If the data upload fails, a pop-up window shown below tell this to you. If the problem still persists after some trials, contact your regional service center.

![Information Window](image2)

### 3-2. Exiting the Maintenance Application

To exit the Maintenance Application, Click the “X”.

![Click X](image3)
3-3. Maintenance Application Functions

The Maintenance Application has various functions. Select a function from the side menu bar.

<Functions>

**Application**: See page 19~20.

**Monitor / PC Operation**: Displays the splicer touchscreen and operate the splicer on the Application. Arc test process and splicing process can be recorded for a video file. (The function is not available on Z1C.) (See page 22~24.)

**Remote control**: Connects to service center via internet and have the splicer diagnosed remotely if it has any problems. (The function is not available on Z1C.) (See page 25~27.)

*The remote control service is only available for TYPE-71C, TYPE-Q101-CA and TYPE-81C as of March 2013.*

**Software update**: Updates the splicer software via internet. (See page 28~29.)

**Splicer settings**: Displays the settings the splicer has, such as splice program, arc parameter and etc. You can also edit and output the settings in CSV format to the PC. (See page 30~34.)

**Splice data**: Displays splice data stored in the splicer memory. You can also output the splice data in CSV format to the PC. (See page 35~36.)

**Error logs**: Displays error logs stored in the splicer memory. You can also output the error logs in CSV format to the PC. (See page 37~38.)

**Image history**: Displays fiber images stored in the splicer memory. You can also save the images in JPG format to the PC. (See page 39~40.)
3-4. Operating the splicer from the PC ("Monitor / PC Operation" function)

This function enables to have the splicer monitor screen displayed and operate the fusion splicer on the PC. You can perform an arc test, the splicing and the heat shrink processes by clicking the on-screen icons. This function does not use internet communication between the splicer and SEI server.

**Note:** Before performing an arc test and the splicing process, load fiber in the splicer and select suitable splice program for the fiber from the pull down menu. Before performing the heat shrink process, place a protection sleeve with the splice onto the heat shrink oven and select a suitable heater program for the sleeve from the pull down menu.

![Diagram](image)

**Note:** While this function is used, the splicer shows the globe icon. If the Ready screen appears on the splicer after resetting it and you would like to continue to use the function, get out of "Monitor / PC Operation" by selecting "Application" and then select "Monitor / PC Operation" again.

![Diagram](image)
Recording function

You can record splicing process and arc test process and save as a video file on the PC.

If you would like to record arc test process, click in advance to enter the Arc Test mode.

Click . Save as screen will pop up, asking you to select what location (on the PC) to save the video file.

The name of the file is linked to the date and time. You can also edit it as you like. Click “Save”.

Note: The video file format is “.avi” only. Estimated loss, cleave angle etc are not saved in the video.

Click Start . Splicing process or arc test process will start. After the process is finished, the video file is automatically created in the location you selected.

Note: The recording time is max. 60 seconds.

Select what location (on the PC) to save the video file. Click .

When is displayed above the REC icon, the Application starts recording and countdown of 60 seconds in the background.

Click .

After the splicing process or arc test process is completed, recording is also completed and a message window to tell you completion of recording appears. Click “OK”.

Click .
Following the message, you will be asked if you would like to upload the video file to the SEI server for future reference for your regional service center. Click “Yes” or “No”.

Note: If an error occurs or “Reset” icon is clicked during recording, the recording is finished at the time and the file of the video which was recorded part way through is created.

The video file is automatically created in the location you selected. It can be opened with “Windows Media Player” or other players.
Fiber images in the video file are captured directly from the CMOS camera and there is no mention of “X” and “Y” fields. You can interpret the images as follows.
3-5. Remote diagnosis by Service center (“Remote control” function”)

This function enables to connect the fusion splicer to service center via the SEI server and have the splicer diagnosed remotely if it has any problem.

*The remote control service is only available for TYPE-71C, TYPE-Q101-CA and TYPE-81C as of March 2013.

Note: It is recommended that you contact your regional service center and arrange schedule before taking the service. At the same time inform them of splicer’s S/N, problem found, etc.

It uses internet communication between the splicer and SEI server. Ensure that “Permit” for the Important notice is selected on the start screen. (Refer to page 19.) Select “Remote control” from the side menu bar.

As soon as selecting “Remote control” from the side menu bar, a pop-up window that asks you if you would like to start remote control appears. Click “Yes”.

This will allow the splicer to get connected to the SEI server for remote control and “Permit” on the Remote control screen is automatically selected. To prevent accidental incorrect operation during remote control, other functions are disabled temporarily.
Note: Selecting “Deny” before remote control means cancellation of the remote control and all other functions are enabled again. If you select “Deny” during remote control, the remote control will be terminated.

For Windows 7 and Vista, if “Aero” feature is enabled, the information window will appear. With the feature enabled, your PC desktop will happen to be shown on the maintenance center’s computer. To proceed to the remote control, click “Yes”. The Aero feature will be disabled temporarily during the remote control. (And it is automatically enabled again after the remote control.) If you select “No”, the remote control is cancelled.


After you’ve done up to this step, contact them to tell that you’re ready. Once the service center accept the splicer and are ready to diagnose it, the fiber image observed by the splicer is displayed on the Maintenance Application and the screen image of the Maintenance Application will be sent to the service center via the server.

Note: While the remote control is conducted, the splicer shows the globe icon. If it does not show the icon, from the menu screen on the splicer, manually select [USB]-[Remote Diagnosis].

The service center will remotely control and diagnose the splicer. Wait for a while.

Caution: Do not disconnect the USB and internet connection during the remote control. It is recommended that AC power be used rather than batteries to prevent from running out of power.

You can type messages you would like to tell to the maintenance center during the remote control. The center can view the messages as they are.
To terminate the remote control, select “Deny”. The internet connection will be disconnected. Or it can also be disconnected by the service center. When the remote control is terminated, the splicer shows the “Ready” screen.
3-6. Updating the splicer software ("Software update" function)

When the software update indicator icon is on the start screen, you can update the software on the splicer.

This function uses internet communication between the splicer and SEI server.

Ensure that “Permit” for the Important notice is selected on the start screen. (Refer to page 19.)

Then select “Software Update” from the side menu bar.

Check the software versions displayed on the Application and click the “Update” button to start the update.

Wait until the green progress bar moves to the right.

Caution: Do not disconnect the USB and internet connection during the software update. It is recommended that AC power be used rather than batteries to prevent from running out of power.
After the software update is completed, the splicer will shut down automatically. A message window that tells you that the Maintenance Application will be closed appears. Click “OK”.

Turn on the splicer and go to “Information” from the menu screen. Ensure that the software has been updated.

Note: If you fail to update the software, reboot the PC and try again.

Note: From software version 1.152, a message that prompts you to install Persian font on the PC is displayed from the next start-up of the Maintenance Application. If you need the font, click “Font update”. If you don’t need, disregard the message. The font update does not affect the splicer operating system.
Even if the Persian font is installed, it may not be displayed depending on the splicers.
3-7. Viewing/saving/editing/copying splicer’s settings (“Splicer settings” function)

To **view** the settings of the splicer connected on the Application, select “**Splicer settings**” from the side menu bar.

This function does not use internet communication between the splicer and SEI server.

Splice programs/Heater programs/Function settings stored in the fusion splicer are displayed.

Click the tab of “Splice Program”, “Heater Program” or “Function” you would like to view.
To **save** the program settings to the PC, right-click anywhere on the table and select **“Output CSV file”**.

Save the CSV file to a preferred location on the PC (and change the file name if necessary).

To **edit** the settings, highlight the value you would like to change by clicking it and then double-click it. A cursor will appear. Enter a new value.
Note: When you place your mouse pointer over the value, you can see the range of allowable values.

Click anywhere else after entering the new value. The new value is fixed in the data table and the change made is saved in the splicer memory in synchronization. You can edit the settings while looking at the program screen on the splicer monitor. If you move to other screen from the current screen and come back to the screen which was shown previously, you can see the change.

Caution: Splice/Heater program settings for various fiber profiles pre-loaded in the splicer are optimized before shipment and such optimization requires professional knowledge. We cannot guarantee that the settings you edited can result in high splice losses, failure of splicing/heat shrinking etc. If you would like to return the edited settings to the factory default, from the splicer’s menu select “Maintenance”-“Restore Data (2/2 page)”. 
“Align Method” and functions have pull-down options. Highlight the current option of an item you would like to change by clicking it. Then double-click it. Options appear on pull down menu.

Click anywhere else after changing the settings. The newly selected option is fixed in the data table and the change made is saved in the splicer memory in synchronization. You can change the settings while looking at the function screen on the splicer monitor. If you move to other screen from the current screen and come back to the screen which was shown previously, you can see the change.
You can also **copy** splice/heater program settings to blank program areas. Click the Data number you would like to copy. The values and items for the Data number will be all highlighted. Right-click anywhere in the highlight, and select “Copy”.

Program data window will pop up. Before copying, you can change the program number of area to copy the data to, and even change the value and edit the program label. Click “OK” when you’re ready.

**Note:** Blank program areas are,

For **TYPE-71C, TYPE-Q101-CA, TYPE-81C, Z1C**

>>>Splice program: No. 101~300, Heater program: No. 51~100

For **TYPE-71M12, TYPE-Q101-M12, TYPE-81M12**

>>>Splice program: No. 101~200, Heater program: No. 71~100

**Note:** The following splice programs cannot be copied and edited.

For **TYPE-71C, TYPE-Q101-CA, TYPE-81C, Z1C**

>>> Data 1 (Auto)

For **TYPE-71M12, TYPE-Q101-M12, TYPE-81M12**

>>> Data 1 (SM: Auto), Data 2 (MM: Auto), Data 3 (DS/NZ: Auto)

The splice program is copied to the designated blank area.

**Note:** Once data are copied, they cannot be deleted.
3-8. Viewing/Saving splice data ("Splice data" function)

To view splice data stored in the splicer memory on the Application, select “Splice data” from the side menu bar.

This function does not use internet communication between the splicer and SEI server.

Note: To store splice data, you need to set “Memory” to ON in the splicer function menu.

Splice data stored in the splicer memory are displayed in chronological order.
Double-click a row item to view further details about it.
Max. 10,000 data points can be displayed. (Max. 10,000 data points can be stored in the splicer memory.)

Note: You cannot alter data from the table, it is view only.
To save the table of the splice data to the PC, right click anywhere on the table and select "Output CSV file". Save the CSV file to a preferred location on the PC (and change the file name if necessary).
3-9. Viewing/Saving error logs (“Error logs” function)

To view error logs stored in the splicer memory on the Application, select “Error logs” from the side menu bar.

This function does not use internet communication between the splicer and SEI server.

The error logs are displayed in chronological order. Double-click a row item to view further details about it.

Note: You cannot alter data from the table, it is view only.
To save the table of the error logs to the PC, right click anywhere on the table and select “Output CSV file”.

Save the CSV file to a preferred location on the PC (and change the file name if necessary).
3-10. Viewing/saving fiber images (“Image history” function)

To view fiber images stored in the splicer memory on the Application, select “Image history” from the side menu bar.

This function does not use internet communication between the splicer and SEI server.

**Note:** To store images, you need to set “Memory” to ON in the splicer function menu.

![Image history function](image)

Double-click an image file to display an enlarged view on the Application.

Max. 64 images can be displayed. (Max. 64 images can be stored in the splicer memory.)

**Note:** The latest image comes to the rightmost place.

![Double-click to display enlarged view](image)
To save an image file to the PC, click the “Save file select” button.

The button will change to the “Save” button and a check box appears to the left of each image file. Tick off the box of the file(s) you would like to save to the PC and click “Save”.

To cancel saving of the files, click “Save” again without ticks.