

***It is recommended to use the CITY MULTI Startup Process document in combination with this document.**

I. Purpose

- A. The CITY MULTI Extended Warranty Process is a guide to completing the procedure for extended 10 year parts warranty.
- B. Items that must be submitted to apply for extended warranty are:
 - 1. Diamond System Builder file (as built)
 - 2. System Information
 - a. This will allow us to understand how the system is configured at start up.
 - 3. At least one hour of Maintenance tool (M-Tool) run in a specific operational pattern, as shown in section IV of this document, for each system being submitted.

II. Diamond System Builder (DSB)

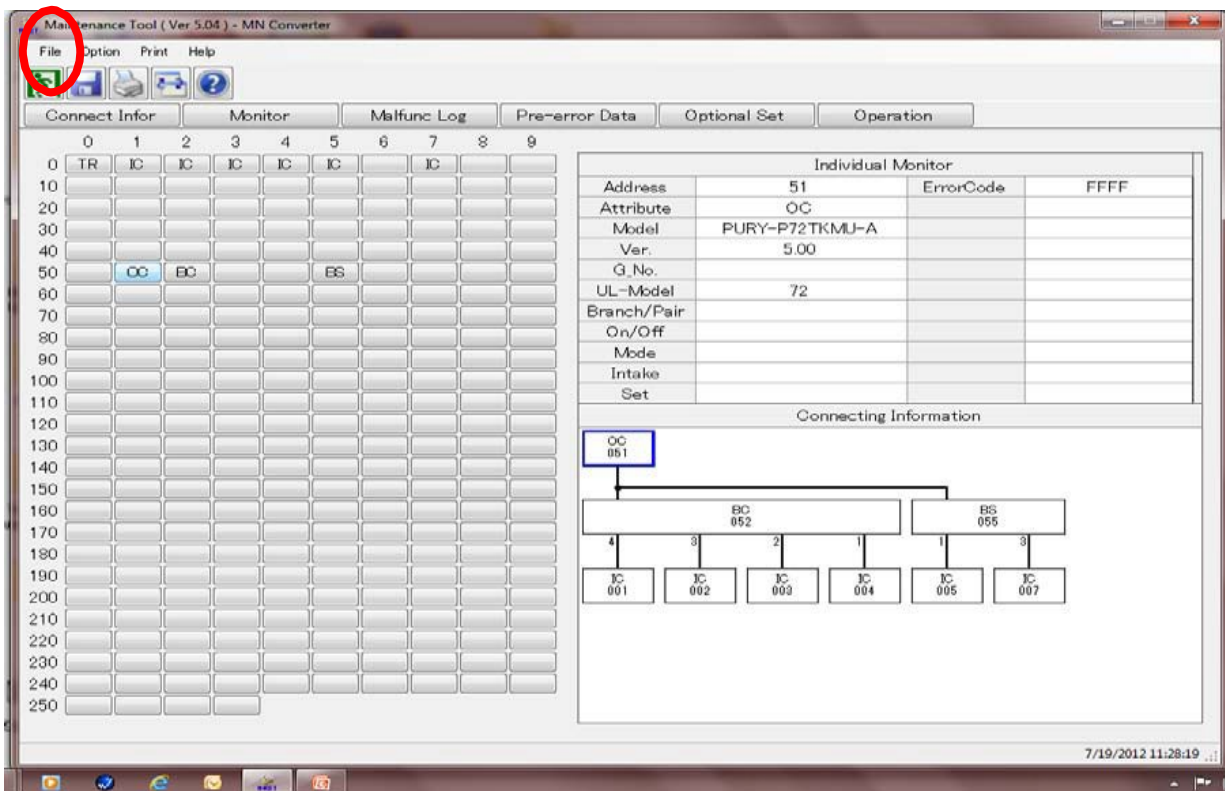
- A. DSB has fields that will allow input of items such as serial numbers, installing contractors, design engineer and more.
 - 1. Each field with a red asterisk (*) beside it is a required field and will need appropriate information before being submitted.
- B. The DSB file must be complete and truly represent how the system is installed including correct piping lengths and port assignments (as built). Remember the M-Tool file you submit shows the indoor model and addresses connected. To ensure your application is not rejected, check that the M-Tool record and DSB are in fact reflecting the same information.
- C. When any system component is selected there are areas to enter refrigerant piping length, unit height, unit address, connected refrigerant port (R2 systems only), and unit serial number.
- D. There is a tab in the Project Properties Box marked “Extended Warranty”, all of the fields in this box marked with the red asterisk (*) must be completed.

- E. M-Tool run time and system information files are to be attached to the DSB in the Project Properties Box under the “Extended Warranty” tab.

III. System Information

A. System information

1. For Y – Series systems, once all addresses are correct, the information can be saved.
2. For R2 – Series systems, verify all port assignments before saving system information.
3. System information must be saved and submitted. Be sure all information is correct.
 - a. M-Tool may take several minutes to finish its system mapping process before data can be saved.
4. Once all addresses are correct the information can be saved.
 - a. Select **File** at the top left of the grid screen. Then click **Save System Info**.



b. The information will save and store in the **Offline Analyze** section of Maintenance Tool.

1. Offline Analyze will be one of the options when you first open M-Tool on the Select Monitor Mode Screen.
2. The steps for retrieving the information will be covered in section V.

IV. One Hour Monitor Record

A. Record all indoor units in **Test Run. (Refer to City Multi Startup Process Document)**

1. System must be in either **Heating** or **Cooling** (all indoor units in the same mode) for a minimum of one hour.
2. Must be in **Ordinary Ctrl Mode** (not Initial).
3. All indoor and outdoor units must stay operational (thermal on) during this Test run. Note that all controls should be “locked out” to prevent scheduled or occupant changes that can alter the system operation during this time. When using the thermostat interface (**PAC-US444CN-1**) it will not be possible to force test mode, so setting the lowest set point for Cool or highest set point for Heat is recommended. If you cannot keep all units in thermal on for the recording period, please contact your technical Mitsubishi support representative.

Operation Status Monitor (Trend)

Return Time-Searching Print View Option Window Help

OC (RUBV-R77)TKMU-A Adres:051 Ver5.00/1.04

Ctrl Mode	Ope Mode	F	Foc	FAN	QjC	QjH	Vdc	Idc	Iu	Iw	AL	LX	FAN (rpm)	LEV5a	FAN -Free
Ordinary	C.Only	31	31	27	42	0	282.0	0.0	15.5	15.7	1	0.000	200	41	Normal

63HS1 63LS TH3 TH4 TH5 TH6 TH7 FAN-Ver Save(%) Ope Status Attribute M-NET Supply Unit Start-up unit

304.4	103.8	91.6	133.5	45.7	110.5	75.0	3.01	100	H. Press. Drop	OC	OC	OC
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Tc Te THHS 21S4a SV1a SV4a SV4b SV4d SV5b SV9 AK

97.2	33.3	98.1	0	1	1	1	0	1	0	28
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DEMAND DEMAND2 NIGHT NIGHT2 SNOW Power(Hz) Rotation Timer Rep M-NET Supply

OFF	OFF	OFF	OFF	OFF	60	0.00	1	1
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BC(main) Adres:052 Ver1.07

BC Sig	OC Sig	SC1	SH2	SC6	SVM	SVM2	L1	L2	L3	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	0	
C.O.ON	C.Only	6.7	36.2	8.1	1	0	2000	2000	145	a	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0

PS1 PS3 dPHM PT1 PT3 T1 T2 T5 T8

304.4	304.4	0.0	97.2	97.2	90.0	74.5	38.8	88.5	b	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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BC(sub) Adres:055 Ver1.07

SH2	L3	1	2	3	4	5	6	7	8	
O.O	167	a	1	0	1	0	0	0	0	0

T2 T5

38.8	38.1	b	0	0	0	0	0	0	0	0
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IC

	Model	G_No	B_No	TH1	TH2	TH3	TH4	SH/SC	Li	TO	Save	O/F	Mode	State	IC S
001	12	1	4	67.5	38.1	65.3	-	27.2	227	63.0	100	Test	Cooling	ON	Cool ON
002	15	2	3	73.8	38.8	70.3	69.6	31.3	146	63.0	100	Test	Cooling	ON	Cool ON
003	18	3	2	70.3	42.6	44.1	-	1.4	254	63.0	100	Test	Cooling	ON	Cool ON
004	12	4	1	71.1	39.7	62.6	-	22.9	141	63.0	100	Test	Cooling	ON	Cool ON
005	12	5	1	71.1	40.5	64.0	-	24.1	141	63.0	100	Test	Cooling	ON	Cool ON

B. When exiting the **Monitor** screen, you will be prompted to **Confirm Data Save**

1. You are also given the option to modify the **Data Name**, and add comments and customer information.

a. It is recommended that you use the **Job Name** in the **Data Name** field and if there are multiple systems onsite to put the **system designation or number** in the **Comment Field**.

C. The saved data will store in the **Offline Analyze** section of M-Tool.

1. Changing the name and adding comments will make location of the files faster.

The screenshot displays the M-Tool interface with a 'Confirm Data Save' dialog box in the foreground. The dialog box contains the following elements:

- Question: "Are you sure you want to save?"
- Data Name field: MN20120206_152447
- Comment field: (empty)
- Customer field: (empty)
- Checkboxes:
 - Monitor the Pre-error data
 - Monitor the malfunc log
- Buttons: Save, Not Save

The background interface shows several data tables:

63HS1	63LS	TH3	TH4	TH5	TH6	TH7	FAN-Ver	Save(%)	Ope Status	Attribute	M-NET Supply Unit	Start-up unit
210.5	210.5	74.5	109.6	75.4	74.7	75.9	2.05	100	-	OC	OC	OC

Tc	Te	THHS	21S4a	SV1a	SV2	SV4a	SV4b	SV4c	SV4d	SV5b	SV5c	SV9	DEMAND	DEMAND2	NIGHT	NIGHT2
72.9	72.9	77.9	0	0	0	0	0	0	0	0	1	0	OFF	OFF	OFF	OFF

BC Sig	OC Sig	SC1	SH2	SC6	SVM	SVM2	L1	L2	L3	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	0
Stop	Enable	-0.2	0.0	-0.2	0	0	1200	60	60	a	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PS1	PS3	dPHM	PT1	PT3	T1	T2	T5	T6		b	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
210.5	210.5	0.0	72.9	72.9	73.0	72.3	72.3	73.0		c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

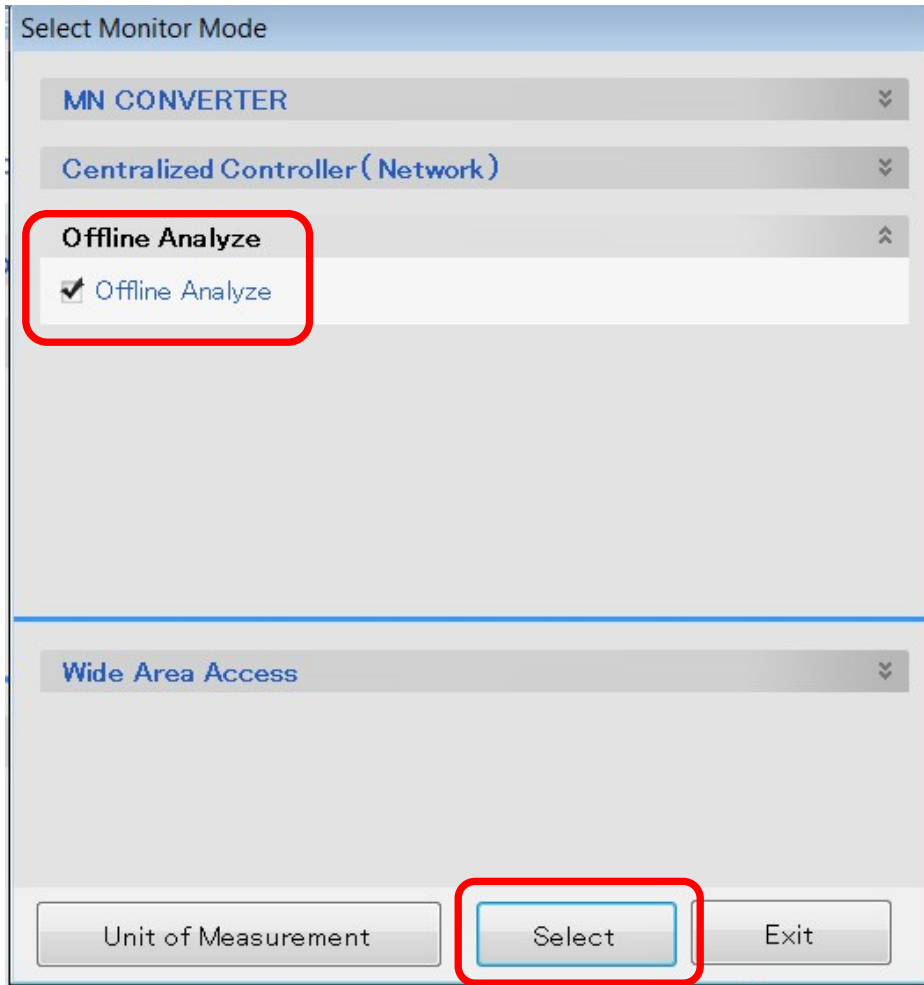
V. Retrieving Saved Maintenance Tool Data

A. Saved data will store in the **Offline Analyze** section of M-Tool.

1. Here you can highlight the **system information** and **runtime data** and export it to a location where it can be easily found.

2. A folder, where all saved information can be stored, should be created.

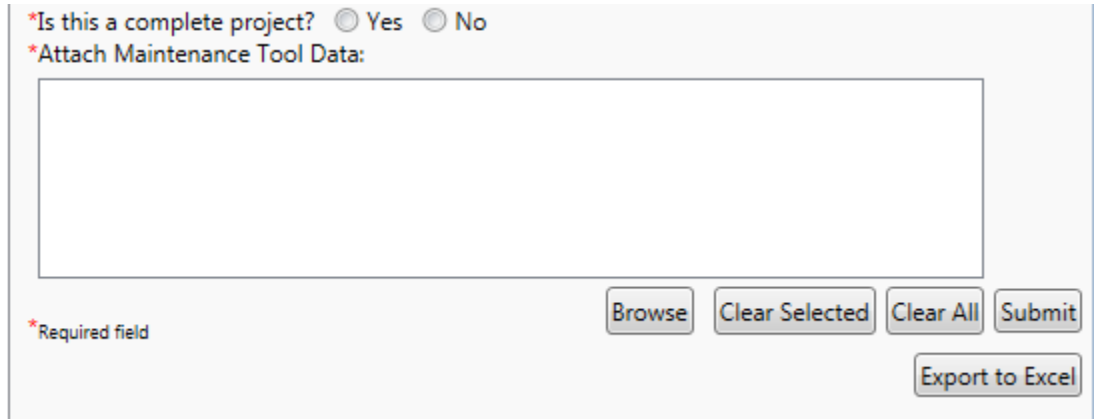
B. Start Maintenance Tool and select "**Offline Analyze**", make sure the box is checked and click select at the bottom of the window.



- C. Click the “**Monitor**” button, select the file to be exported and select “**Export**” button at bottom of the window to export the run time data.
 1. Another window will open giving you the option to select the destination folder created in step V.A.2 above.
- D. Click the “**System Info**” button, select the file to be exported and select “**Export**” button at the bottom of the window to export the system information data.
 1. Just as above a window will open giving the option to select the destination folder created in step V.A.2 above.

VI. Submitting Extended Warranty Files

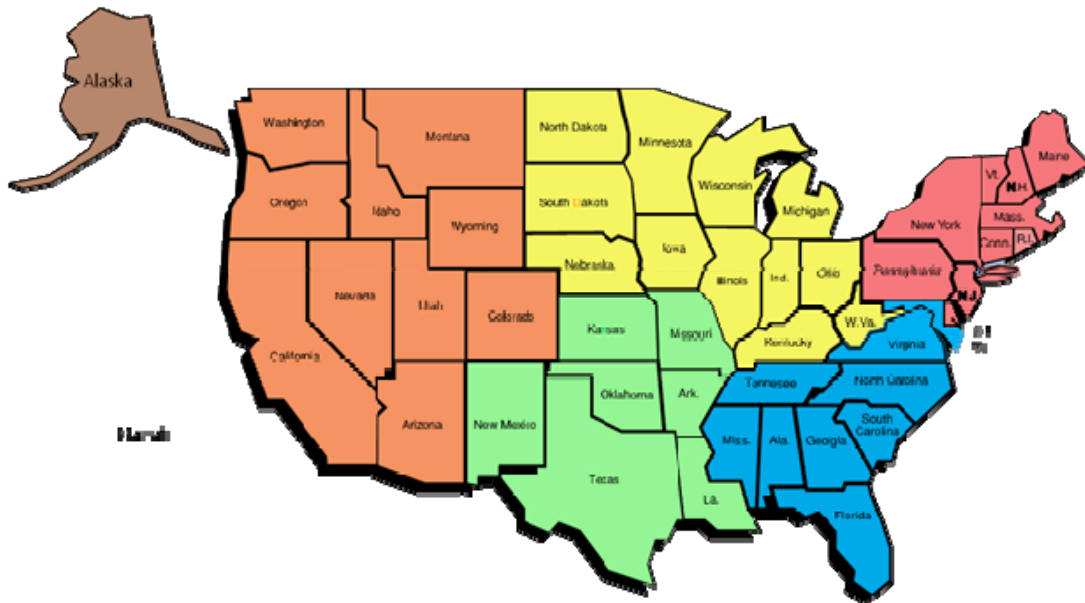
- A. Attach the Exported M-Tool System Information and Runtime files to the DSB in the extended warranty tab in the project properties section.



The screenshot shows a web form with the following elements:

- A question: "*Is this a complete project?" with radio buttons for "Yes" and "No".
- A label: "*Attach Maintenance Tool Data:"
- A large empty rectangular box for file attachment.
- A row of buttons: "Browse", "Clear Selected", "Clear All", and "Submit".
- A button labeled "Export to Excel" located below the "Submit" button.
- A red asterisk and the text "*Required field" located at the bottom left of the form.

1. Select "**Browse**" and navigate to the folder created in step V.A.2 to select the files to attach.
 2. Once files have been attached to the As Built DSB file select "**Submit**" to send the project in for review.
 - a. If there is any missing information the DSB program will give a notification of errors to correct before the file can be properly submitted.
- B. For additional information on the DSB submission process please view our **Extended Warranty DSB** Tech Tip on www.mylinkdrive.com under the Tech Tips section.
- C. The following data must be submitted
1. Diamond System Builder file (As Built)
 2. Maintenance Tool System Information
 3. Maintenance Tool Run Time Data (Minimum 60 Minutes for each system)
- D. The data **MUST** be submitted within **45 Days** of **Startup**.
- E. The Extended Warranty will **NOT** take effect until a warranty authorization number has been issued.
- F. If you have any questions regarding collection of data and submission you can contact the area service team for your state at the email addresses listed below.



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