2DBCRSorter

Online Control Software Request SPEC

Supplementary Instruction for TechWing

Rev. 1.20

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Revision history

Rev. No.	Content	Author
1.00	初版	(評生技)江島
1.10	Lot Start 手続き ST C40 Data フォーマットに 1 項目追加(2018-2-23)	(評生技)江島
1.20	Test B/C への送信 Data file format 間違い訂正(2018-8-10)	(評生技)江島

1. Purpose of supplementary explanation

This Manual describes the change point of 2DBCRSorter Online Control Software Request Specification for TechWing. For the Data format of Online Communication after we reviewed, the Data Format on this Manual is the final specification.

Also, this Manual is matching with Request SPEC, the change point will be indicated with red color as much as possible.

2. Machine configuration and System overview

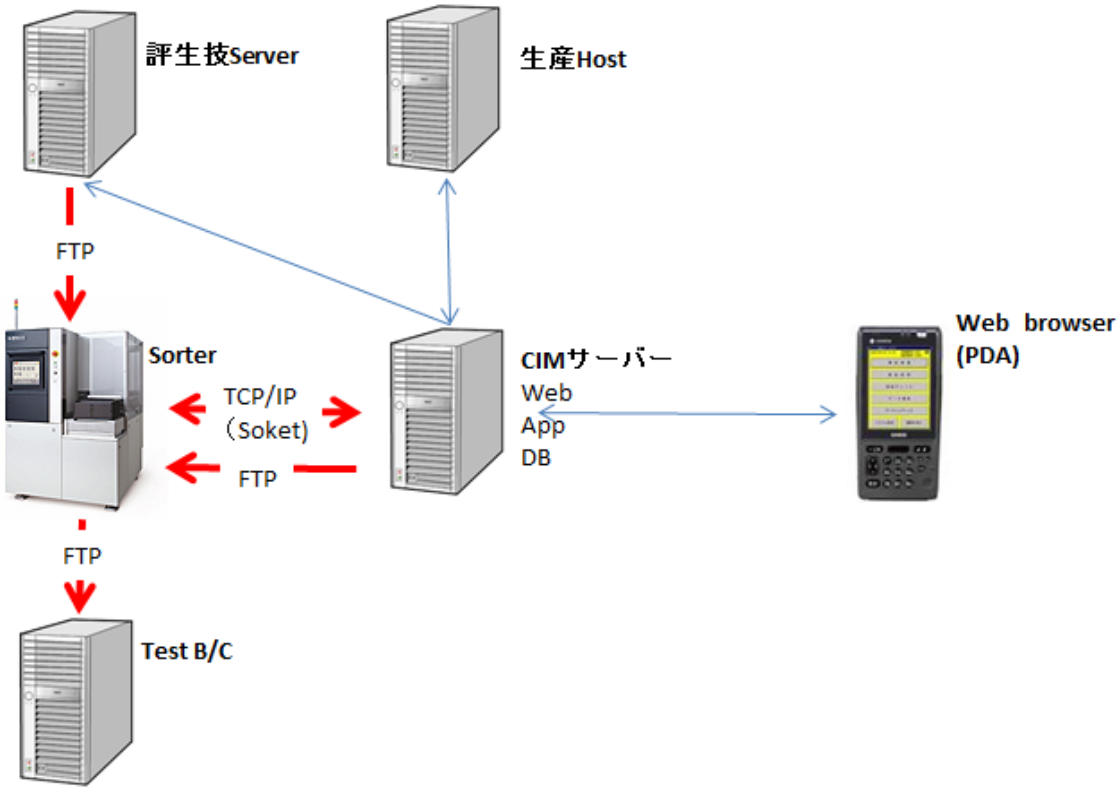
This Sorter's Online environment consists of PDA terminal, Web Server, (評生技)Server, Production Host, Test B/C.

The Sort portion perform the necessary Online support (Production Host response, Sort result data transfer, etc.) for unchecked Tray supply, 2DBC reading, PKGID List getting, Bin Sort process, Lot start process, and Lot End process from Loader.

All Software process related to Sorter is Online Control Software.

2. 1 System overview

（1） System configuration Diagram



（2） Functional overview

1) Production Host

- Production management
- Lot confirmation process (Reply Lot information to PDA)
- Receive Operation input (Lot Status)

2) Test B/C

- Sort data collect/register

3) (評生技)Server

- PKGID List file Storage

4) PDA terminal

- Interface with Operator
  (Lot Start, Re-Check Start, Test End, Lot End, etc)
- Lot Information Confirmation Process (Lot Confirmation to Product Host)
- Operation input / Transmit to Production host

5) CIM Server（Web Server）

・PDA-Sorter communication

6) Sorter

- Accept Test start request/ Test result notification
- Lot Start process
- Lot End process
- Sort data result creation and management
- Self-Diagnosis and maintenance
- HW management and Trouble handling
- Sort operation data creation and management
- Communication with CIM Server　(By both FTP/HTTP communication)
  Setting item: IP, Port, Context name, Program name, Key String
- Communication with (評生技)Server（By FTP communication；　Get PKGID List file List）

２．２　Control

（１）Communication Mode

Depending on the operation method of Machine, there have Input Lot information from PDA ON_line Mode and OFF_line Mode for inputting Lot information from Machine screen.

Display the connection status of 「Host (Test B/C)」 / 「Sorter」.

				Lot Info.		Sort data	
	Test B/C	Sorter	Process	From PDA	From the handler screen	Data creation	Data transfer
When using online control software (Auto)	※1 ON_line	ON_line	Create sort data and transfer it to the server	○	-	○	○
	ON_line	OFF_line	Do not create sort data	-	-	-	-
	※2 OFF_line	ON_line	Before starting the lot Do not start from PDA when host OFF_Line	○	-	○	-
			When host OFF_Line is reached during measurement, leave sort data in the device Resend at the next ON_Line	○	-	○	△
	OFF_line	OFF_line	Do not create sort data	-	-	-	-
Manual	※3 -	-	Select a program from the device screen and start test by command input Do not create sort data	-	-	-	-

On the above table, only when the state of the Blue part is available to operate. (Assuming that Sorter is Online mode in all cases)

※１　Communication Mode for Online operation, Basically only Host, Sorter are all ON_line state.

※２　If Host became OFF_line in the middle from ※１　state。Data will be kept and re-send on next ON_line mode.

※３　Manual operation（Analysis Mode Offline operation）

※ It can be set freely for Retry time of communication, Timeout（3times, 300secs, etc）

２．３ Error handling

（１）When JAM, Sorter Error occurred

After Sorter auto stopped, remove the root cause of JAM, Error, by "ＳＴＡＲＴ"Switch to restart, to perform the remaining Test.

If returning to state or operation resumption is not possible, transfer to Test End,

If Test End is also impossible, force takes out.

Also, operation resumption is not possible, Record 2DBC reading result and Sort result until Error occurrence.

２．４ Sorter Parameter auto switch

When Online mode, match Sorter Parameter setting information obtained from PDA during Lot Start processing, Select Function File, Load Sorter Parameter and set。（when Offline mode, set on Sorter side）

３． Control Software SPEC

Control Software running on Sorter has the following functions

（１） Sorter status, error information and Sort result sent from PC during Sorter operation are accumulated, collected, and output as File.

（２） When Host Online mode, Transmit the output information to Test B/C.

３．１ Flow of whole Test process（Overview）

1) Sorter power supply

2) Sorter setup

Initialize, （Perform Self-Diagnosis）, display the result ；If Self-Diagnosis function had.

3) Sorter Lot Start Preparation

(A Register PKGID List file in (評生技)Server) ；Analysis Mode only

B Condition setting（Mode selection (Production Mode/ Analysis Mode)

C Taking the target product that matches the setting condition of Sorter

D Confirm there is no IC left in each part of Sorter

E Set Empty Tray to Unloader Stacker and Empty Tray Stacker

F Count total Lot quantity before test, Confirm PASS SPL is matched in the front-end process ；Production Mode only

G Open the Stacker Door, Set SPL to Loader Stacker before test.

4) PDA Lot Start process

A Read KEYNO, Operator ID by Barcode Reader

B Lot confirmation to Production Host by KEYNO

C Receive Lot information from Production Host（P/N, Stage, etc.）

（When Production Mode, Receive Combine Sub Lot information by FTP）

D Transmit Lot information to Sorter

5) Sorter Lot Start process

A Receive Lot information from PDA (Lot Start procedure:ST C40), Set corresponding Sorter Recipe

B After Confirming Sorter is Online mode, Push Start Button, Lot Start

C Get PKGID List file of Lot KEYNO from (評生技)Server.

Transmit Lot Start notification to PDA(Lot Start notification ：JE C40)

D Test start

Read 2DBC of IC on C-Tray

Notify Sorter PC about PKGID information by 2DBC read

Handling it, if there has abnormal process, emergency stop request from Sorter

During abnormal process, Sorter will stop, also 2DBC reading also stop

If 2DBC reading is interrupted by the primary power supply down, or other

The Tray supplied to 2DBC part will be removed and re-checking is necessary

E IC supplement (Loader Empty)

- When there is no IC in Sort Stacker, Call Operator

  To supply, turn off Alarm and supply IC and press Start Button

  If no need to supply, only turn off Alarm
- After all process is done, Call Operator

  Continue test with IC supplement or select to Lot End

  If continue test with IC supplement, resume the test with Start Button

  If Lot End, select Lot End process

F Re-checking

- If 2DBC cannot be read, divide into R sort, and re-checked by manually.
- Set the R sort IC to Loader stocker
- Receive Retest start procedure from PDA (Retest start procedure : ST C41)
- Retest start notification to PDA (Retest start notification : JE C41)

6) Sorter Test End process

- Data creating

  (Sort data, Sorter operation record Data, Sorter JAM Data, Sorter Error Data)

  Each Data consists of Header portion and Data portion

  Append Header information created from Lot information to each Data portion and create the Data File.
- Each data is sent from Sorter to Test B/C. If cannot be sent, resend it on the next Online mode.
- Test End notification to PDA(Auto Test End notification: JE C90)

  The above notification is using HTTP by TCP/IP socket communication

  Example : GET /testerOnline/mcevent.do?Key=099:Z,JEC90,000 HTTP/1.1 CR+LF CR+LF

7) PDA Lot End process

- Sort result confirmation to Sorter (Sort result confirmation procedure: ST C60)
- Transmit Lot End to Sorter(Lot End procedure: ST C80)
- Sending operation input values to Production Host

8) Sorter Lot End process

- Transmit Sort result to PDA(Sort result confirmation procedure : JE C60)
- Transmit Lot End notification to PDA(Lot End notification: JE C80)

9) PDA Lot Start Cancel process (Including Re-test Lot Start Cancel process)

- Transmit Lot Start Cancel to Sorter(Lot Start Cancel/Re-test Lot Start Cancel : ST C51)

10) Sorter Lot Start Cancel process (Including Re-test Lot Start Cancel process)

- Transmit Lot Start Cancel notification to PDA(Lot Start Cancel/Re-test Lot Start Cancel : JE C51)

3. 2 Sorter communication SPEC

(O) Precondition

- After Error occurred, Test End, force took out, Or transmit the IC online data without clearing to the Test B/C, which the IC already transported to the Stacker at Lot Cancel and completed to the Sort classification. The IC in 2DBC reading progress will move to R Sort with Gray judgment. Also, Lot Cancel process method is same with the above.
- Sorter environment can be log-in from other PCs and other servers via the Network, and the log files can be collected on the User side.

・When Force took out, Lot Start Cancel, Retest Start Cancel, Take out all IC to R. BUT, before clearing information at Host Online, transmit detail data of Sort classified IC to Test B/C, clear all Lot information and test data, and return to wait for Lot test state.

（1） Data item and Flow between Sorter — CIM Server

Communication between Sorter and CIM Server via TCP/IP, Sorter returns each notification after process completed for various procedure signals from the CIM Server.

When the machine communication software is activated, open the setting port, The communication mechanism is to open a socket for each event and perform.

Because Packets between Sorter and CIM Server are secured by TCP/IP, no need to consider the Packets separation and lost.

When checking the traffic with the CIM Server on the communication software side, check with Ping command etc.

・Communication items from CIM Server to Sorter (Procedure Code)

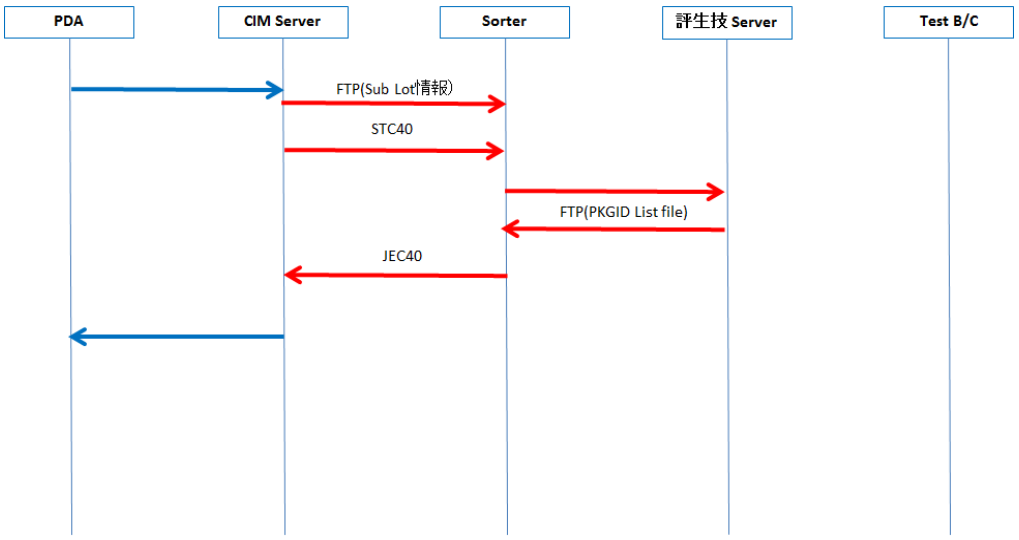
a. Lot Start procedure (ST C40)
b. Restart Start procedure (Manual Retest only) (ST C41)
c. Lot Start Cancel/Restart Start Cancel (ST C51)
d. Sort Result confirmation Procedure (ST C60)
e. Lot End procedure (ST C80)

・ Communication items from Sorter to CIM Server (Procedure Code)

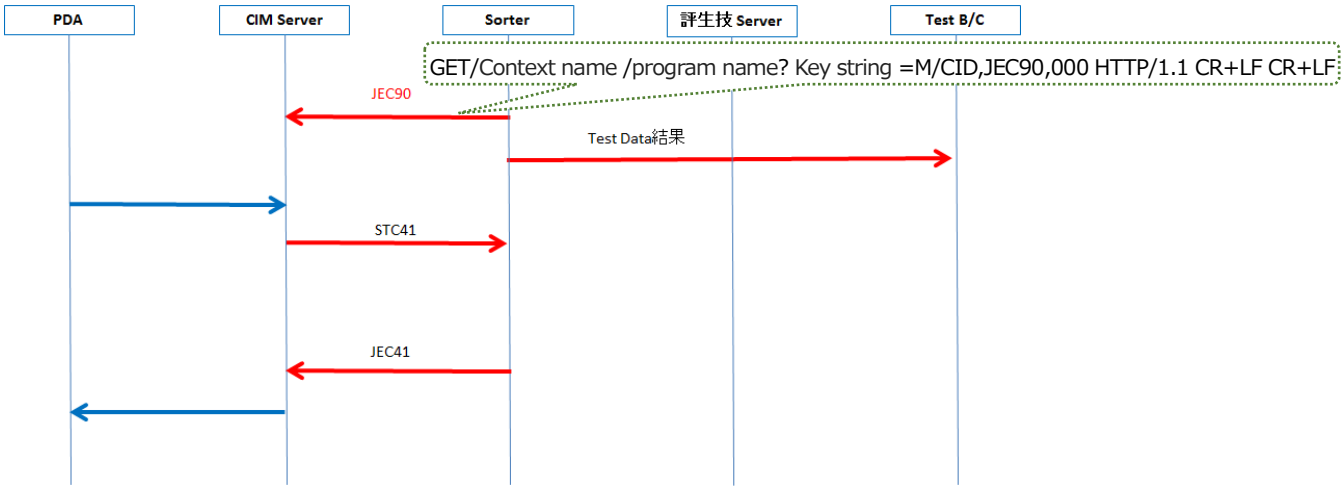
a. Lot Start notification (JE C40)
b. Restart Start notification (Manual Retest only) (JE C41)
c. Lot Start Cancel/Restart Start Cancel notification(JE C51)
d. Sort Result confirmation Procedure (JE C60)
e. Lot End notification (JE C80)
f. Auto Test End notification (JE C90)

Basic Flow

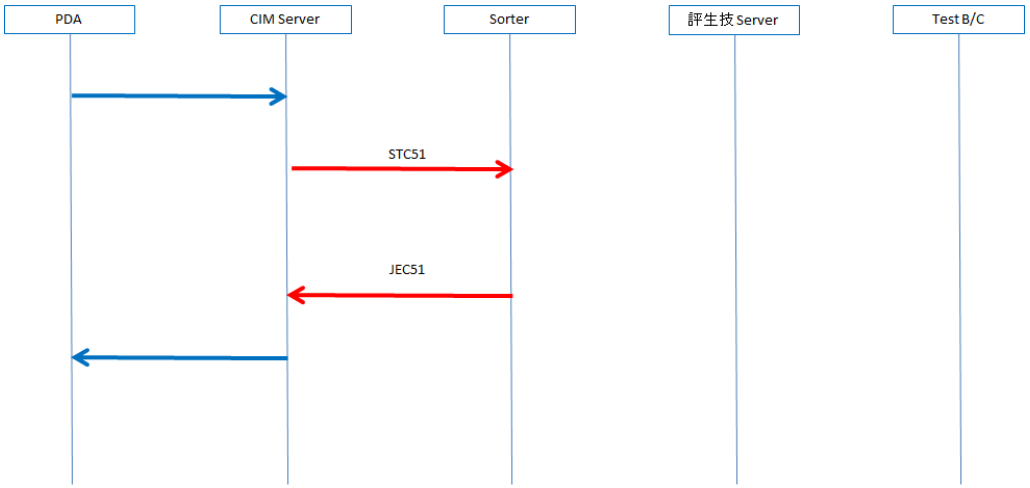
ａ． Lot Start procedure



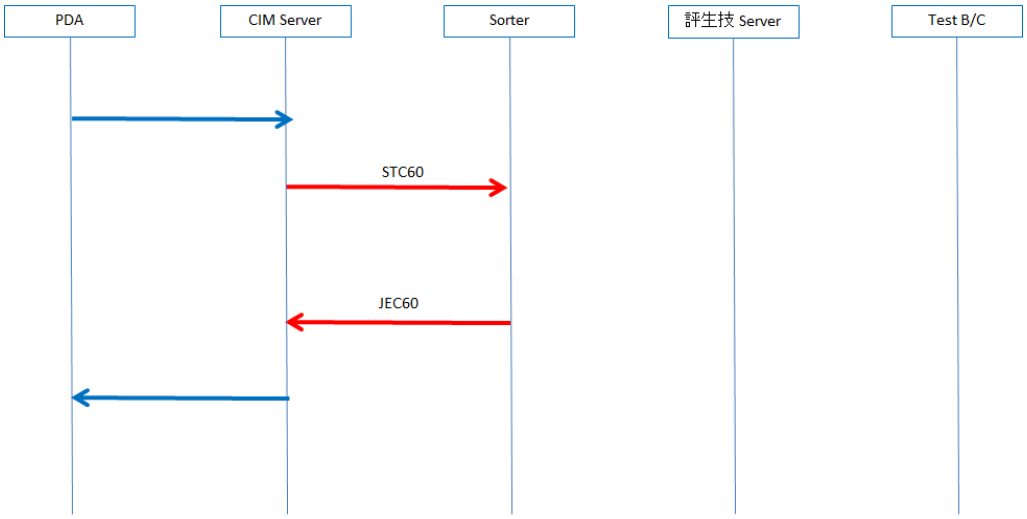
ｂ． Restart Start procedure (Manual Retest only)



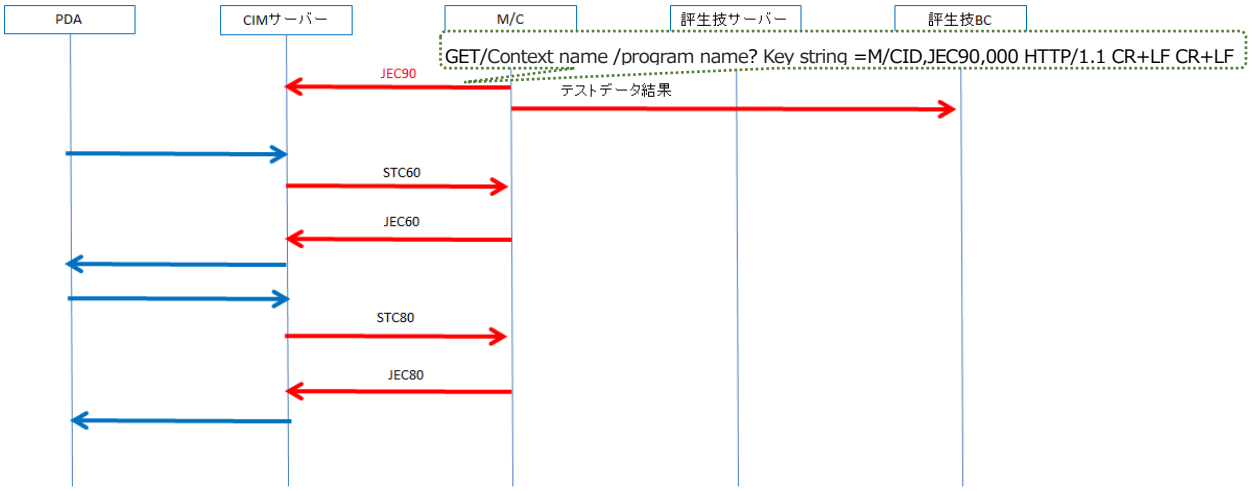
c． Lot Cancel/Retest Cancel



d． Sort confirmation procedure



e． Lot End procedure



（２） Data Format between Sorter－CIM Server（Delimiter ’,’）

Lot Start procedure ST C40 CIM Server → Sorter

Item	Size	Format	Remarks
M/C No	ASCII 可変長		M/C No
Procedure Code	ASCII 可変長	ST C40	Code for communication procedure
Keyno	ASCII 可変長		LOTNO in process
Product Name	ASCII 可変長		Product name
LOTNO	ASCII 可変長		LOTNO in the factory
OPID	ASCII 可変長		Operator ID
Test Program ID	ASCII 可変長		PKGID List File name
Retest times	ASCII 可変長		Manual retest times
GROSS	ASCII 可変長		Number of LOT products
Fn Disk	ASCII 可変長		Sorter Parameter setting information
Directly	ASCII 可変長		(評生技)Server PKGID List File Storage location

Lot Start notification JE C40 Sorter → CIM Server

Item	Size	Format	Remarks
M/C No	ASCII 可変長		M/C No
Procedure Code	ASCII 可変長	JE C40	Code for communication procedure
Status	ASCII 可変長		000 Normal / Other abnormality
Message	ASCII 可変長		

Retest Start procedure ST C41 CIM Server → Sorter

Item	Size	Format	Remarks
M/C No	ASCII 可変長		M/C No
Procedure Code	ASCII 可変長	ST C41	Code for communication procedure
Keyno	ASCII 可変長		LOTNO in process
Product Name	ASCII 可変長		Product name

LOTNO	ASCII 可変長		LOTNO in the factory
OPID	ASCII 可変長		Operator ID
Retest times	ASCII 可変長		Manual retest times

Retest Start notification JE C41 Sorter → CIM Server

Item	Size	Format	Remarks
M/C No	ASCII 可変長		M/C No
Procedure Code	ASCII 可変長	JE C41	Code for communication procedure
Status	ASCII 可変長		000 Normal / Other abnormality
Message	ASCII 可変長		

Lot Start Cancel/Retest Start Cancel ST C51 CIM Server → Sorter

Item	Size	Format	Remarks
M/C No	ASCII 可変長		M/C No
Procedure Code	ASCII 可変長	ST C51	Code for communication procedure
KeyNo	ASCII 可変長		LOTNO in process

Lot Start Cancel/Retest Start Cancel JE C51 Sorter → CIM Server

Item	Size	Format	Remarks
M/C No	ASCII 可変長		M/C No
Procedure Code	ASCII 可変長	JE C51	Code for communication procedure
Status	ASCII 可変長		000 Normal / Other abnormality
Message	ASCII 可変長		

Sort result confirmation procedure ST C60 CIM Server → Sorter

Item	Size	Format	Remarks
M/C No	ASCII 可変長		M/C No
Procedure Code	ASCII 可変長	ST C60	Code for communication procedure
Keyno	ASCII 可変長		LOTNO in STAGE

Sort result confirmation notification JE C60 Sorter → CIM Server

Item	Size	Format	Remarks
M/C No	ASCII 可変長		M/C No
Procedure Code	ASCII 可変長	JE C60	Code for communication procedure
Status	ASCII 可変長		000 Normal / Other abnormality
Good Die	ASCII 可変長		Product Good Die
NG Die	ASCII 可変長		Product NG Die
BC read error count	ASCII 可変長		The number Barcode was unable to read
BC collation error number	ASCII 可変長		Number not in PKGID List
Sort1	ASCII 可変長		Total number of Sort 1 stowage
Sort2	ASCII 可変長		Total number of Sort 2 stowage
Sort3	ASCII 可変長		Total number of Sort 3 stowage
Sort4	ASCII 可変長		Total number of Sort 4 stowage
Sort5	ASCII 可変長		Total number of Sort 5 stowage

Lot End procedure　ST C80　CIM Server → Sorter

Item	Size	Format	Remarks
M/C No	ASCII 可変長		M/C No
Procedure Code	ASCII 可変長	ST C80	Code for communication procedure
Keyno	ASCII 可変長		LOTNO in STAGE

Lot End notification　JE C80　Sorter → CIM Server

Item	Size	Format	Remarks
M/C No	ASCII 可変長		M/C No
Procedure Code	ASCII 可変長	JE C80	Code for communication procedure
Status	ASCII 可変長		000　Normal / Other abnormality
Message	ASCII 可変長		

Auto Test End notification　JE C90　Sorter → CIM Server

Item	Item	Format	Remarks
M/C No	M/C No		M/C No
Procedure Code	Procedure Code	JE C90	Code for communication procedure
Status	ASCII 可変長		

FTP communication Data

Text File Data　CIM Server → Sorter

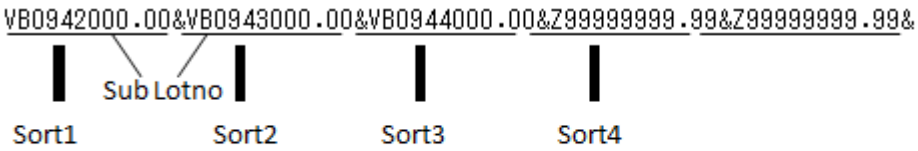
assy1.asc

Item	Size	Format	Remarks
KEYNO	13 byte fixed		KEYNO of Combine lot

asmb1.asc

Item	Size	Format	Remarks
KEYNO	65 byte fixed		KEYNO of sub lot

※asmb1.asc data structure



・The first Lotno is to Sort1, the next Lotno is to Sort 2, and so on, to assign Sort.
・Z99999999.99 indicates that there is no Sub Lot. This example shows the data in 3Lot Combine.

Text File Data　(Detailed description on (5))　評生技 Server → Sorter

Production Mode

項目	Size	Format	Remarks
SORTNO			Sort No.
DEVICE_ID			Barcode information printed on PKG
KEYNO			Sort classification item * displayed in Sorter

Analysis mode ※One case for example

Item	Size	Format	Remarks
SORTNO			Sort No.
DEVICE_ID			Barcode information printed on PKG
EQPCode			Sort classification item * displayed in Sorter
StartTime			Sort classification item * Do not display in Sorter

Error item list

Error Item	status	message	Contents
Normal operation	000	Ended normally	
Abnormal data	001	Entered abnormal data	Data input from PDA is over digit,Garbled characters,Missing items
Test program Unregistered	002	**Not used**	
Program loading	003	**Not used**	
Under test	004	under test	Performed the lot end procedure during PDA test end procedure
Sorter operation	005	**Not used**	
Sorter not Lot end yet	006	Sorter not Lot end yet	Performing lot end, lot end procedure from PDA during sorter operation
Sorter not start	007	Sorter not start	Perform lot end from PDA before sorter start
Not executable	008	Not executable	Received an unexpected signal from the PDA

（３） Data item between Sorter－Test B/C

Sorter will totalize Data by one unit which is from Test Start to Test End, and transmit Data File to Test B/C at the Test End. Retest will also totalize Data, and transmit Data File to Test B/C at the Retest End.

Transmission from Sorter to Test B/C is using FTP

Each Data File consists of Header and Data portion, and the Header portion is common item to each Data.

Data File structure

Header Portion
Data Portion

※There have line feed between Header Data portion.

・ Data category list

Data name（Data category ID） File name(※STN: Station No.)

Sort data (511) sort_hnd_Machine Number_STN_Date and Time (14 digits).tcc

Sorter operation record Data (682) hnddevcntSTN_ Machine Number_STN_Date and Time (14 digits).tcc

Sorter JAM Data (660) hndJAM_ Machine Number_STN_ Date and Time (14 digits).tcc

Sorter Error Data (670) hnderr_ Machine Number_STN_ Date and Time (14 digits).tcc

※ When Offline mode, save data in Sorter without sending Data to (評生技)Server

・Header portion item

1.Data category

2.KEYNO

3.Lot classification

4.Family name

5.Pellet Code

6.Device name
7.LotNo.
8.Stage Code
9.Tester No.
10.Station No.
11.Handler No.
12.Process started date and time
13.Process finished date and time
14.Operator ID
15.Retest time
16.Recheck time
17.Test Program name
18.Revision No.
19.Paformance Board No.
20.Change of Kit No.

・Data portion item

1)Sort data

1.Total quantity
2.Pass count quantity
3.Fail count quantity
4.Yield
5.Sort1 count quantity
n.Sortn count quantity (Up to n=8)

2)Sorter operation record Data

1. Operation quantity

3)Sorter JAM Data

1.Total quantity
2.JAM quantity
3.JAM ratio
4.JAM occurrence Code
5.Count

4)Sorter Error Data

1.Total quantity
2.Error total quantity
3.Error ratio
4.Error occurrence Code
5.Count

（４）Data Format between Sorter－Test B/C

Communication message between Sorter and Test B/C・・・Delimiter of each item is ’,’(comma）

■Header portion

Item	Format		Remarks
Data Type	ASCII 可変長		※Described in each Data part
KEYNO	ASCII 可変長		LOTNO in STAGE
Lot classification	ASCII 可変長		Fixed to "00"
Family name	ASCII 可変長		null
Pellet Division	ASCII 可変長		null
Product name	ASCII 可変長		Product name
LotNo	ASCII 可変長		LOTNO in the factory
Process Code	ASCII 可変長		Code of Sorter operation process
Tester№	ASCII 可変長		M/C name
Station№	ASCII 可変長		Fixed to "1"
Handler№	ASCII 可変長		Fixed to "1"
Processing start date and time	YYYYMMDDhhmmss		Sorter operation start date and time
Processing end date and time	YYYYMMDDhhmmss		Sorter operation end date and time
OPID	ASCII 可変長		Operator ID
Retest times	ASCII 可変長		Number of manual Retest
Number of retests	ASCII 可変長		null
Program name	ASCII 可変長		PKGIDList name
Revision№	ASCII 可変長		null
Performance board №	ASCII 可変長		Fixed to "H0001"
Change of Kit №	ASCII 可変長		Fixed to "C0001"

■Data portion

Sort Data（Data category：511O）

Item	Format		Remarks
Total Q'ty	ASCII 可変長		Total number of ICs in operation LOT
Pass count value	ASCII 可変長		Number of ICs correctly sort classified
Fail count number	ASCII 可変長		R Sort classification Number of ICs stored
Yield	ASCII 可変長		Two decimal places (%)
Sort1　Count number	ASCII 可変長		Number of ICs classified as Sort 1
：			
Sort８　Count number	ASCII 可変長		Fixed number of items * Using Sort 5
Retest　Count number	ASCII 可変長		Number of ICs to be Retest
Para(B)	ASCII 可変長		null
Para(D)	ASCII 可変長		null
Para(F)	ASCII 可変長		null
Para(E1/E2)	ASCII 可変長		null
Para(G1/G2)	ASCII 可変長		null
Final DUTnumber	ASCII 可変長		null
Para （C)	ASCII 可変長		null
Re-TEST judgment result	1 digit		null

Para(A)	1 digit		null

Sorter operation record Data（Data category：682O）

Item	Format		Remarks
Number of operations (number of processed devices)	ASCII 可変長		（Loading Q'ty）

Sorter JAM Data（Data category：660O）

Item	Format		Remarks
Total Q'ty（Loading)	ASCII 可変長		Total number of ICs in work LOT
Total JAM	ASCII 可変長		Number of JAM occurrences
JAM rate	ASCII 可変長		Two decimal places (%)
JAMCode1	ASCII 可変長		JAM Code1
Count	ASCII 可変長		Number of ICs in JAM Code 1
JAMCode2	ASCII 可変長		JAM Code2
Count	ASCII 可変長		Number of ICs in JAM Code 2
:			
JAMCoden	ASCII 可変長		JAM Coden
Count	ASCII 可変長		Number of JAM Coden Ics

Sorter Error Data（Data category：670O）

Item	Format		Remarks
Total Q'ty（Loading)	ASCII 可変長		Total number of ICs in operation LOT
Total number of errors	ASCII 可変長		Number of occurrences
Error rate	ASCII 可変長		Two decimal places (%)
ErrorCode1	ASCII 可変長		Error Code1
Count	ASCII 可変長		Number of ICs for Error Code 1
ErrorCode2	ASCII 可変長		Error Code2
Count	ASCII 可変長		Number of ICs for Error Code 2
:			
ErrorCoden	ASCII 可変長		Error Coden
Count	ASCII 可変長		Number of ICs for Error Coden

（５）Data Format between Sorter一評生技 Server

2DBC Reader reads PKGID List Data for sorting 2DBC Data of the IC after receiving the Lot Start procedure from the PDA, transmit it to (評生技)Server to confirm PKGID List, and get PKGID List Data from (評生技)Server.
Reception from (評生技)Server to Sorter is executed by either FTP or HTTP.

1) PKGID List Data item

① Sort number
The number decides which sort of Sorter to classify.

② PKGID
The Data which collate 2DBC information of Device.

③ Sort classification item

Parameter item for sort classification. Display as Sort information on Sorter's Panel screen.

For Production mode, fix it with Assembly Sub Lotno. In analysis mode, the item is not fixed because it depends on the analysis content.

2) PKGID List File Format

Text File Data which the Data of 3items are separated by "," (Comma).

① Sorter number

② PKGID

③ Sort classification item

PKGID List File example for Production Mode

```
SORTNO, DEVICE_ID, KEYNO
1, DKG639304WMH250AQ, U11111
1, DKG639304XZH250A9, U11111
1, DKG63930525H250AM, U11111
.........
2, DKG639304ZMH250AF, U11112
2, DKG63930516H250AP, U11112
2, DKG6393052EH250AC, U11112
.........
```

PKGID List File example for Analysis Mode

```
SORTNO, DEVICE_ID, EQPCode,StartTime
1, DKG639304WMH250AQ, BGL500, 2017/8/10
1, DKG639304XZH250A9 , BGL500, 2017/8/10
1, DKG63930525H250AM , BGL500, 2017/8/10
.........
2, DKG639304ZMH250AF , BGL501, 2017/8/9
2, DKG63930516H250AP, BGL501, 2017/8/9
2, DKG6393052EH250AC, BGL501, 2017/8/9
.........
```

（Sort classification items are separated by "," (comma), it's possible to add comment. Based on the above example, sort classification is with EQP equipment's date and time. But, Sorter screen can only display 3 items.）

Sorter reads PKGID List File, and then expand, response it within 60secs as target time.

But, this is not the necessary limitation when creating PKGID List File size that cannot fit within 60secs, Need to consider and discuss it.

３．３ Others

（１） Sorter HW Trouble handling

1)Sorter communication Error

・Error occurrence process

2)Sorter ＨＷ trouble

・When Error occurred, display Error Code to Sorter

3)Sorter ＨＷData management

・HW trouble Data Log creation and management

・DIAG Data Log creation and management（If DIAG function existed）

（２） Lot Cancel/Retest Start Cancel process

When Sorter receives Lot Cancel/Retest Start Cancel from PDA, Clear all Lot information, Test Data, Return to waiting for Lot test state.

（３） Test can be operated with Online Mode and Manual Operation Mode

Online Mode

Using PDA with activated Online Control Software. Test result Data is transmitted to Test B/C and Online registered.

Manual Operation Mode

It won't use PDA for Online Control Software. Input Lot information manually from Handler.
Test Result Data is saved in Sorter and not registered online.

（４） Software Release

・Test program etc should check automatically if the same thing is not contained and do not test with Alarm etc.
・Prepare necessary tool, FTP soft, Mount tool, Utility etc for checking Online Monitor and Trouble etc. for Online in advance.

（５） Communication setting File management

・Sorter is to manage the file in the list of communication settings with the external system.
・The communication setting items are listed as following
IP Address, User ID, Password, Directory for each system
・List of communication setting items can be displayed on Sorter's screen and the communication setting items can be changed
・Communication setting File management is by "Engineer related" - "communication setting" of Sorter screen.
(※Please check 4.5 Screen specification of 2DBCR sorter requirement specification)

４． Others

４． １ Accessory

Manual	:	One（For Japan only）
Software（Media preparation by Maker）	:	One

４． ２ Delivery date

（１） Delivery date

Strict observance of delivery date

（２） In case of delivery date delay

If the delivery date is delayed, need to inform in advance by contacting the other party.

４． ３ Agreement matter

（１） Add / delete specifications

If item addition, deletion, etc. are necessary of this specification, need to hold the meeting to decide.

（２） Unknown point, correction

If there has Unknown point, correction, etc. points are necessary of this specification, need to hold the meeting to decide.

（３） Meeting minute

About the decided item/content on the meeting, create the meeting minute by Maker, and issue it to check the check the content.

（４） Priority

About the decided item/content on the meeting has the priority than this SPEC.

4．4 Inspection condition

（1） Operation confirmation after installation

Online, Offline operations are normal, and Data can be correctly sent to CIM and received. (Before introducing, suggest try running the operation by Online n Maker side to confirm communication can be performed successfully.)

—That's all—