Fuji Flexa Interface Specification

(Production data)

History	Date	Details	Revised by
R0.0	2010/05/14	Newly created	Nishio
R0.1	2012/10/12	Modification	Morita
R0.2	2013/12/11	Modification	Yamamoto
R0.3	2014/07/10	Modification	Morita
R0.4	2015/10/07	Modification	Yamamoto
R0.5	2015/11/24	Modification	Yamamoto
R0.6	2016/04/14	Modification	Yamamoto

History

R0.0 New Document

R0.1 Modification

R0.2 Modification

R0.3 1. Change final character about the below command.

・CCMCLIST

・SELECTEVENT

・CCEVENT

2. Add command.

・GetSelectEvent (Application -> Line Monitor Server)

・GetModuleSelectEvent (Application -> Line Monitor Server)

3. Change character from ¥ to \ for English OS.

R0.4 1. Change command.

・PDCOUNT2 (add item 'LCRCheck')

2. Add supported machine (NXT-H)

R0.5 1. Change command (PDERROR)

2. Change command (NOZZLECOUNT)

R0.6 Modification

Contents

1 Background

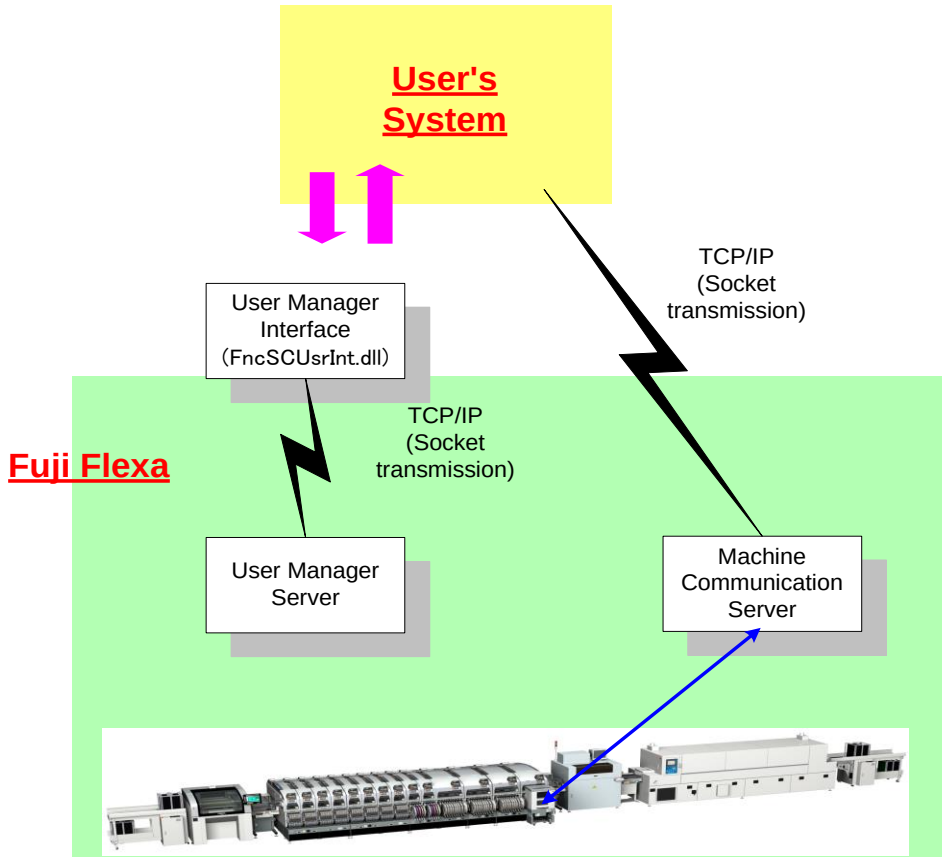
This document details the Fuji Flexa production information real time acquisition interface

Furthermore, in order to implement the User Host Interface, a dedicated license is required for each computer in the user's system connected to Fuji Flexa.

In addition, the sections inside the customer's system that use the Fuji Flexa interfaces must be created in Microsoft Visual C++ 6.0. Also, it must be created in Microsoft Visual Studio 2005 Visual C++ (only supported by Fuji Flexa V4.0.0 and later).

2 Fuji Flexa Interface

In order to use the Fuji Flexa interface, the following configuration is required.



Note *In order to create this system, Fuji Flexa minimum setup must be installed to the computer which is running the user's system.*

Note *Regarding error code from FujiFlexa, please download ErrorCode DB from FUJI Homepage (http://www.fuji.co.jp/) member's only.*

2.1 Initialization

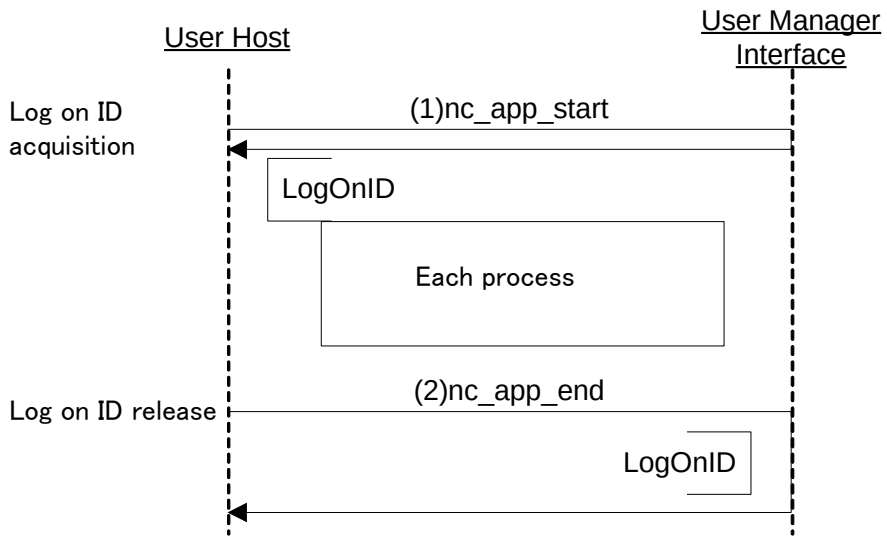
Initialization is required in order to use each Fuji Flexa Interface.

The system log on ID obtained with this process is also required when each API is used.

Also, the system log on from the user's system to Fuji Flexa is performed only once. The same system log on ID can be used when each API is used.

When each process is completed, do not forget to release the system log on ID.

The APIs described below are contained in the following DLL: <Fuji Flexa installation folder>¥Common¥Bin¥FncSCUsrInt.dll



2.1.1 nc_app_start()

Obtains system log on ID

int nc_app_start(HWND hWnd, UINT logonid, nc_appinfo* appinfo, nc_userinfo* usrinfo, char* accessfile, int* errorinfo)*

Arguments

hWnd	Window Handle for application
logonid	System log on ID

	When it is called, it is set to 0. For the return value, log on ID would be set.
usrinfo	User information *1
appinfo	Application information *2
accessfile	NULL is always set
errorinfo	Error Code

*1 Structure of nc_userinfo is as follow:

struct nc_userinfo {			
	char	groupno[12];	NULL is always set
	char	groupname[256];	NULL is always set
	char	userno[12];	NULL is always set
	char	username[21];	NULL is always set
	char	password[15];	NULL is always set
	UINT	dataaccess	NULL is always set
}			

*2 Structure of nc_appinfo is as follow:

struct nc_appinfo{			
	char	appcd[4];	Set “D3”
	char	appname[256];	Application name
	char	ver[32];	Application version
	UINT	kind	”3” is always set
	UINT	secmode	”2” is always set
}			

※“appname” and “ver” item is anyting set ok..

Return Value

0	normal ending
-100	abnormal ending (user name error)
-101	abnormal ending (password error)
-102	abnormal ending (application name error)
-103	abnormal ending (application code error)
-104	abnormal ending (version error)
-105	abnormal ending (license is not permitted)
-106	abnormal ending (access is not permitted)
-107	abnormal ending (serer access is not possible)
-108	abnormal ending (log on ID error)

-200	abnormal ending (others)

Description

Obtain the system log on ID to perform each process. When each process is completed, do not forget to release the system log on ID.
This function is a FncSCUsrInt.dll (Fuji Flexa installation folder> ¥Common¥Bin¥ FncSCUsrInt.dll) export function, therefore load and use FncSCUsrInt.dll.

2.1.2 nc_app_end()

Releases the system log on ID

int nc_app_end(UINT logonid, nc_appinfo* appinfo, int* errorinfo)*

Arguments

logonid	System log on ID obtained by nc_app_start()
appinfo	Application information *1
errorinfo	Error Code

*1 Structure of nc_appinfo is as follow

struct nc_appinfo{			
	char	appcd[4];	Set “D3”
	char	appname[256];	Application Name
	char	ver[32];	Application Version
	UINT	kind	”3” is always set
	UINT	secmode	”2” is always set
}			

※“appname” and “ver” item is anyting set ok..

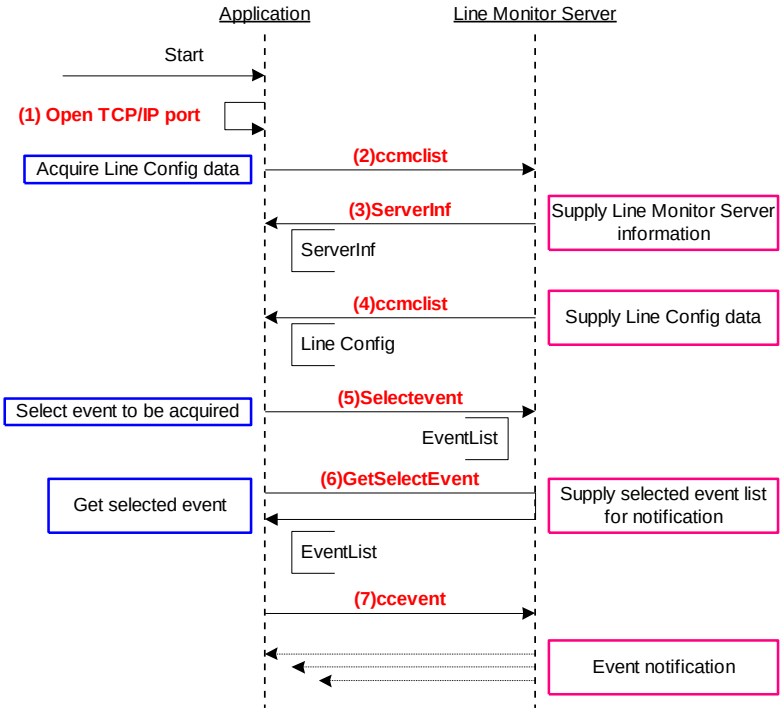
Return Value

0	normal ending
-107	abnormal ending(Server access is not possible)
-108	abnormal ending (Log on ID error)
-200	abnormal ending (Others)

Description

Release the system log on ID obtained by nc_app_start(). After the system log on ID is obtained, be sure to release the system log on ID when the production information acquisition below is completed.
This function is a FncSCUsrInt.dll (Fuji Flexa installation folder> ¥Common¥Bin¥ FncSCUsrInt.dll) export function, therefore load and use FncSCUsrInt.dll.

2.2 Acquiring the production information



(1)	TCP/IP port no. 53341 is opened.
(2)	Application sends the line configuration acquisition command (via the open port).
(3)	Application receives the server information from the Line Monitor Server.
(4)	Application receives the line configuration information from the Line Monitor Server.
(5)	Application sends a Selectevent command.
(6)	Application sends a GetSelectEvent command. Application receives the selected event list from the Line Monitor Server.
(7)	Application sends a realtime event receive initialization command.

Note: The TCP/IP port no. 53341 is the default port used by Fuji Flexa. It is possible to change the port setting at the [Socket] section in the FNCPISRV.INI file (Directory: <FujiFlexa>¥Server¥INI¥FNCPISRV.INI) at the computer that is running the Machine Communication Service.

Note: For NXT machines, it is possible to select the unit of production information that is received by the transmitted command (machine unit, module unit).

2.2.1 Acquire line configuration command

This command is used to acquire information such as the line configuration data.

Command	ccmclist\0
Parameters	None
Response	ServerInf and ccmclist
Process direction	Application → Line Monitor Server

2.2.2 Report server information command

This command is used to report server information.

Command	ServerInf “ServerName”,”FolderName”,”Sharing” \n	
Parameters	ServerName	Server host name
	FolderName	Server data folder
	Sharing	Server data folder sharing setting (0:Sharing, 1:No sharing)
Response	None	
Process direction	Line Monitor Server → Application	

2.2.3 Report line information command

This command is used to report the line information in response to the "ccmclist” command from the application.

Command	CCMCLIST\n “LineName_1”,”Nickname_1”,”MachineType”,”PCCType”, “CCType” \n ……. “LineName_N”,”Nickname_N”,”MachineType”,”PCCType”, “CCType” \n EOR\n

Parameters	LineName_N	Line name
	Nickname_N	Machine nickname
	MachineType	Machine type
	PCCType	Item used in Fuji Flexa
	CCType	Item used in Fuji Flexa
Response	None	
Process direction	Line Monitor Server → Application	

2.2.4 Selecting event settings

This sets the events to be acquired as realtime events.

Command	Selectevent<{“MachineNickname”}{,”EventName”}{,”EventName”}…>\0	
Parameters	MachineNickname	Machine nickname
	EventName	“PRODSTART”,”PRODEND”,PDERR”,”PDCOUNT2”,”MCSTATUS”,”MCOFF”,”NOZZLECOUNT”,BOARDCOUNT”,”CONNECTOFF”,”RECIPECHG”
Response	None	
Process direction	Application → Line Monitor Server	

Note:

MachineNickname:

Specifies the machine nickname for the selected event.

It is necessary to perform multiple Selectevent commands if setting multiple machines

If this parameter is not specified, the command applies to all machines.

EventName：

Lists enable events.

When multiple events are selected, it is described once in Selectevent.

When described in multiple Selectevent, it is enabled later.

2.2.5 Checking the selected event setting

This command is used to check the contents of the Selectevent command.

Command	GetSelectEvent\0
Parameters	None
Response	GETSELECTEVENT\n
Process direction	Application → Line Monitor Server

Command	GETSELECTEVENT\n “Nickname_1”,{,”EventName”} {,”EventName”}…\n….. “Nickname_N”,{,”EventName”} {,”EventName”}…\nEOR\n	
Parameters	Nickname_N	Machine nickname
	EventName	Event name of events to be acquired. Note: When all events are selected, [all] is displayed, and when no events are selected, [none] is displayed instead of the event names.
Response	None	
Process direction	Line Monitor Server → Application	

Note: Line Monitor Server sends a response to all machines it is connected to, not just machines registered in the Selectevent command.

2.2.6 Setting the selected event from the module

This selects the events acquired in realtime from the modules.

Supports NXT machines connected to the line monitor server.

Command	ModuleSelectevent<{"MachineNickname"}{,"EventName"}{,"EventName"}…>\0	
Parameters	MachineNickname	Machine nickname
	EventName	Event name of events to be acquired.
Response	None	
Process direction	Application → Line Monitor Server	

Note:

MachineNickname:

Specifies the machine nickname for the selected event.

It is necessary to perform multiple ModuleSelectevent commands if setting multiple machines

If this parameter is not specified, the command applies to all machines.

EventName：

Lists enable events.

When multiple events are selected, it is described once in ModuleSelectevent.

When described in multiple ModuleSelectevent, it is enabled after.

2.2.7 Checking the selected event from the module setting

This command is used to check the contents of the ModuleSelectevent from the module command.

Command	GetModuleSelectEvent\0
Parameters	None
Response	GETMODULESELECTEVENT\n
Process direction	Application → Line Monitor Server

Command	GETMODULESELECTEVENT\n “Nickname_1”,{,”EventName”} {,”EventName”}…\n….. “Nickname_N”,{,”EventName”} {,”EventName”}…\nEOR\n	
Parameters	Nickname_N	Machine nickname
	EventName	Event name of events to be acquired. Note: When all events are selected, [all] is displayed, and when no events are selected, [none] is displayed instead of the event names.
Response	None	
Process direction	Line Monitor Server → Application	

Note: Line Monitor Server sends a response to all machines it is connected to, not just machines registered in the ModuleSelectevent command.

2.2.8 Staring to acquire data in realtime

This command notifies the server to start sending realtime events.

Command	ccevent\0
Parameters	None
Response	Realtime event
Process direction	Application → Line Monitor Server

Note: After the application sends "CCEVENT", it receives "SETUP", "SYSMSG", "CHANGELINE" from Line Monitor Server, but those events are not required.

2.2.9 Stopping acquiring realtime events

This command notifies the server to stop sending realtime events.

Command	ccstop\0
Parameters	None
Response	"EOT" (stop response notice)
Process direction	Application → Line Monitor Server

2.2.10 Starting to acquiring realtime events per module

Each module notifies real time event.

This command can be only use for NXT and AIM connected to the line monitor server.

Command	moduleevent\0
Parameters	None
Response	Realtime event of each module
Process direction	Application → Line Monitor Server

2.2.11 Stopping to acquiring realtime events per module

Each module stop notifying real time event.

Command	modulestop\0
Parameter	None
Response	"EOT" (stop response notice)
Process direction	Application → Line Monitor Server

2.3 Realtime Event List

It is reported to Fuji Flexa, and events not described in this item are not used.

2.3.1 Command and event format received from server

Return command and realtime event received from Line Monitor Server are the below format.

<Format>

, XXXXX [¥t](Tab) ############ ,

①　②　③

①*The number of characters of received data*

②*Separator*（*Tab*）

③*Event data*

Sever add the comma (,) at head and last in an event.

2.3.2 Realtime event format

Notification of realtime events is in the following format:

[Machine nickname]<>Realtime event

Example: 1. A production start event is notified from the machine PC001.

[PC001]<>PRODSTART : *XXXXXXX…*

2.3.3 Module event event format

Module event notified in units of modules differ to realtime events notified in units of machines (machine events), and the module number and lane number are contained in the machine nickname.

Notification of module events is in the following format:

Machine nickname#logical number#lane number<>Module event

The term "logical number" is explained below.

The "logical number" for NXT/AIM machines is the module number.

The "logical number" for AIMEX machines is the robot number. In order to collate data for individual modules, the module number is added to all messages. This number is added to the end of all existing items. In the future, if new items are added, it may not always be the end of messages. Module numbers are also added to NXT/AIM messages. In this case, the "logical number" and the module number are the same.

Example: When a production event is reported from a machine called NXT11, module 3, lane 1.

*[NXT11#3#1]<>PRODSTART : XXXXXXXX…,**3**,…*

Example: When a production event is reported from a machine called AIMEX11, the 3rd robot in a twin-robot, twin-robot machine, lane 1.

*[AIMEX11#3#1]<>PRODSTART : XXXXXXXX…,**2**, …*

The number in red is the added AIMEX module number.

Note: Module events are only supported by NXT/AIM/AIMEX/NXT-H. This is not output for non-modular machines.
For module realtime events which do not exist at a lane, the lane number is reported as "0". (Events such as "MCSTATUS)

2.3.4 PRODSTART

This event notifies the start of panel production.

[Notification contents by Machine]

PRODSTART:<Time>:<ProductID>'\t'(Tab)<ConveyorName>'\t'(Tab)<ProductMode>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>

Fig.2.3.4-1

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*ProductID*	*Panel ID at which production starts.*	*0-99999* *100000-(error)*
3	*ConveyorName*	*Conveyor name*	*MAIN, LANE1~LANE3* *Conveyor name at which production is started.*
4	*ProductionMode*	*Production mode*	*0:normal, 1 : pass mode*
5	*ProgramName*	*Recipe name*	
6	*OperatorName*	*Operator name*	

Fig.2.3.4-2 (O: Supported, -: not supported)

No	Item name	VME	PCC	XP Series	NXT/AIM /AIMEX/ NXT-H	XPF	GPX/NX TP
1	Time	O	O	O	O	O	O
2	ProductID	O	O	O	O	O	O
3	ConveyorNam e	O	O	O	O	O	O
4	ProductionMod e	O	O	O	O	O	O
5	ProgramName	O	O	O	O	O	O
6	OperatorName	O	O	O	O	O	O

[Notification contents by Module]

PRODSTART:<Time>:<ProductID>'\t'(Tab)<ConveyorName>'\t'(Tab)<ProductMode>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>'\t'(tab)<ModuleNo>

Fig.2.3.4-3

No.	Item name	mean	caption
1	Time	The date and time that the event occurred	YYYYMMDDhhmmsscc
2	ProductID	Panel ID at which production starts.	0-99999 100000-(error id)
3	ConveyorName	Conveyor name	LANE1~LANE3 Conveyor name at which production is started.
4	ProductionMode	Production mode	0:normal, 1 : pass mode
5	ProgramName	Recipe name	
6	OperatorName	Operator name	

7	*ModuleNo*	*Module Number*	

Fig. 2.3.4-4 (O: Supported, -: not supported)

No	*Item name*	*VME*	*PCC*	*XP Series*	*NXT/AIM /AIMEX/ NXT-H*	*XPF*	*GPX/NX TP*
1	*Time*	*-*	*-*	*-*	*O*	*-*	*-*
2	*ProductID*	*-*	*-*	*-*	*O*	*-*	*-*
3	*ConveyorNam e*	*-*	*-*	*-*	*O*	*-*	*-*
4	*ProductionMod e*	*-*	*-*	*-*	*O*	*-*	*-*
5	*ProgramName*	*-*	*-*	*-*	*O*	*-*	*-*
6	*OperatorName*	*-*	*-*	*-*	*O*	*-*	*-*
7	*ModueNo*	*-*	*-*	*-*	*O*	*-*	*-*

2.3.5 PRODPAUSE

This is the temporary production stoppage event for each panel. This is issued if the machine stops during production.

[Notification contents by Machine]

PRODPAUSE:<Time>:<ProductID>'¥t'(Tab)<ConveyorName>'¥t'(Tab)<ProductMode>'¥t'(Tab)<ProgramName>'¥t'(Tab)<OperatorName>

Fig.2.3.5-1

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*ProductID*	*Panel ID at which production starts.*	*0-99999* *100000-(error)*
3	*ConveyorName*	*Conveyor name*	*MAIN, LANE1~LANE3* *Conveyor name at which production is started.*
4	*ProductionMode*	*Production mode*	*0:normal, 1 : pass mode*
5	*ProgramName*	*Recipe name*	
6	*OperatorName*	*Operator name*	

Fig.2.3.5-2 (O: Supported, -: not supported)

No	Item name	VME	PCC	XP Series	NXT/AIM /AIMEX/ NXT-H	XPF	GPX/NX TP
1	Time	O	O	O	O	O	O
2	ProductID	O	O	O	O	O	O
3	ConveyorNam e	O	O	O	O	O	O
4	ProductionMod e	O	O	O	O	O	O
5	ProgramName	O	O	O	O	O	O
6	OperatorName	O	O	O	O	O	O

[Notification contents by Module]

PRODPAUSE:<Time>:<ProductID>'\t'(Tab)<ConveyorName>'\t'(Tab)<ProductMode>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>'\t'(tab)<ModuleNo>

Fig.2.3.5-3

No.	Item name	mean	caption
1	Time	The date and time that the event occurred	YYYYMMDDhhmmsscc
2	ProductID	Panel ID at which production starts.	0-99999 100000-(error id)
3	ConveyorName	Conveyor name	LANE1~LANE3 Conveyor name at which production is started.
4	ProductionMode	Production mode	0:normal, 1 : pass mode
5	ProgramName	Recipe name	
6	OperatorName	Operator name	

7	*ModuleNo*	*Module Number*	

Fig. 2.3.5-4 (O: Supported, -: not supported)

No	*Item name*	*VME*	*PCC*	*XP Series*	*NXT/AIM /AIMEX/ NXT-H*	*XPF*	*GPX/NX TP*
1	*Time*	*-*	*-*	*-*	*O*	*-*	*-*
2	*ProductID*	*-*	*-*	*-*	*O*	*-*	*-*
3	*ConveyorNam e*	*-*	*-*	*-*	*O*	*-*	*-*
4	*ProductionMod e*	*-*	*-*	*-*	*O*	*-*	*-*
5	*ProgramName*	*-*	*-*	*-*	*O*	*-*	*-*
6	*OperatorName*	*-*	*-*	*-*	*O*	*-*	*-*
7	*ModueNo*	*-*	*-*	*-*	*O*	*-*	*-*

2.3.6 PRODSTOP

This event stops production for each panel.

[Notification contents by Machine]

PRODSTOP:<Time>:<ProductID>'\t'(Tab)<ConveyorName>'\t'(Tab)<ProductMode>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>

Fig.2.3.6-1

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*ProductID*	*Panel ID at which production starts.*	*0-99999* *100000-(error)*
3	*ConveyorName*	*Conveyor name*	*MAIN,LANE1~LANE2* *Conveyor name at which production is started.*
4	*ProductionMode*	*Production mode*	*0:normal, 1 : pass mode*
5	*ProgramName*	*Recipe name*	
6	*OperatorName*	*Operator name*	

Fig.2.3.6-2 (O: Supported, -: not supported)

No	Item name	VME	PCC	XP Series	NXT/AIM /AIMEX/ NXT-H	XPF	GPX/NX TP
1	Time	O	O	O	O	O	O
2	ProductID	O	O	O	O	O	O
3	ConveyorNam e	O	O	O	O	O	O
4	ProductionMod e	O	O	O	O	O	O
5	ProgramName	O	O	O	O	O	O
6	OperatorName	O	O	O	O	O	O

[Notification contents by Module]

PRODSTOP:<Time>:<ProductID>'\t'(Tab)<ConveyorName>'\t'(Tab)<ProductMode>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>'\t'(tab)<ModuleNo>

Fig.2.3.6-3

No.	Item name	mean	caption
1	Time	The date and time that the event occurred	YYYYMMDDhhmmsscc
2	ProductID	Panel ID at which production starts.	0-99999 100000-(error id)
3	ConveyorName	Conveyor name	LANE1~LANE2 Conveyor name at which production is started.
4	ProductionMode	Production mode	0:normal, 1 : pass mode
5	ProgramName	Recipe name	
6	OperatorName	Operator name	

7	*ModuleNo*	*Module Number*	

Fig. 2.3.6-4 (O: Supported, -: not supported)

No	*Item name*	*VME*	*PCC*	*XP Series*	*NXT/AIM /AIMEX/ NXT-H*	*XPF*	*GPX/NX TP*
1	*Time*	*-*	*-*	*-*	*O*	*-*	*-*
2	*ProductID*	*-*	*-*	*-*	*O*	*-*	*-*
3	*ConveyorNam e*	*-*	*-*	*-*	*O*	*-*	*-*
4	*ProductionMod e*	*-*	*-*	*-*	*O*	*-*	*-*
5	*ProgramName*	*-*	*-*	*-*	*O*	*-*	*-*
6	*OperatorName*	*-*	*-*	*-*	*O*	*-*	*-*
7	*ModueNo*	*-*	*-*	*-*	*O*	*-*	*-*

2.3.7 PRODRESTART

This is the restart production event for each panel, and is issued when production is restarted after being stopped temporarily during production.

[Notification contents by Machine]

PRODRESTART:<Time>:<ProductID>'\t'(Tab)<ConveyorName>'\t'(Tab)<ProductMode>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>

Fig.2.3.7-1

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*ProductID*	*Panel ID at which production starts.*	*0-99999* *100000-(error)*
3	*ConveyorName*	*Conveyor name*	*MAIN, LANE1~LANE2* *Conveyor name at which production is started.*
4	*ProductionMode*	*Production mode*	*0:normal, 1 : pass mode*
5	*ProgramName*	*Recipe name*	
6	*OperatorName*	*Operator name*	

Fig.2.3.7-2 (O: Supported, -: not supported)

No	Item name	VME	PCC	XP Series	NXT/AIM /AIMEX/ NXT-H	XPF	GPX/NX TP
1	Time	O	O	O	O	O	O
2	ProductID	O	O	O	O	O	O
3	ConveyorNam e	O	O	O	O	O	O
4	ProductionMod e	O	O	O	O	O	O
5	ProgramName	O	O	O	O	O	O
6	OperatorName	O	O	O	O	O	O

[Notification contents by Module]

PRODRESTART:<Time>:<ProductID>'\t'(Tab)<ConveyorName>'\t'(Tab)<ProductMode>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>'\t'(tab)<ModuleNo>

Fig.2.3.7-3

No.	Item name	mean	caption
1	Time	The date and time that the event occurred	YYYYMMDDhhmmsscc
2	ProductID	Panel ID at which production starts.	0-99999 100000-(error id)
3	ConveyorName	Conveyor name	LANE1~LANE3 Conveyor name at which production is started.
4	ProductionMode	Production mode	0:normal, 1 : pass mode
5	ProgramName	Recipe name	
6	OperatorName	Operator name	

7	*ModuleNo*	*Module Number*	

Fig. 2.3.7-4 (O: Supported, -: not supported)

No	*Item name*	*VME*	*PCC*	*XP Series*	*NXT/AIM /AIMEX/ NXT-H*	*XPF*	*GPX/NX TP*
1	*Time*	*-*	*-*	*-*	*O*	*-*	*-*
2	*ProductID*	*-*	*-*	*-*	*O*	*-*	*-*
3	*ConveyorNam e*	*-*	*-*	*-*	*O*	*-*	*-*
4	*ProductionMod e*	*-*	*-*	*-*	*O*	*-*	*-*
5	*ProgramName*	*-*	*-*	*-*	*O*	*-*	*-*
6	*OperatorName*	*-*	*-*	*-*	*O*	*-*	*-*
7	*ModueNo*	*-*	*-*	*-*	*O*	*-*	*-*

2.3.8 PRODEND

This event notifies the completion of panel production.

[Notification contents by Machine]

PRODEND:<Time>:<ProductID>'\t'(Tab)<ConveyorName>'\t'(Tab)<ProductMode>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>'\t'(Tab)<CycleTime>'\t'(Tab)<CycleTime2>

Fig.2.3.8-1

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*ProductID*	*Panel ID at which production starts.*	*0-99999* *100000-(error)*
3	*ConveyorName*	*Conveyor name*	*MAIN, LANE1~LANE3* *Conveyor name at which production is started.*
4	*ProductionMode*	*Production mode*	*0:normal, 1 : pass mode*
5	*ProgramName*	*Recipe name*	
6	*OperatorName*	*Operator name*	
7	*CycleTime*	*The time taken to produce each panel.*	
8	*CycleTime2*	*Time from entry into production of relevant panel to completion (msec units)*	

Fig.2.3.8-2 (O: Supported, -: not supported)

No	Item name	VME	PCC	XP Series	NXT/AIM /AIMEX/ NXT-H	XPF	GPX/NX TP
1	Time	O	O	O	O	O	O
2	ProductID	O	O	O	O	O	O
3	ConveyorNam e	O	O	O	O	O	O
4	ProductionMod e	O	O	O	O	O	O
5	ProgramName	O	O	O	O	O	O
6	OperatorName	O	O	O	O	O	O
7	CycleTime	O	O	O	O	O	O
8	CycleTime2	-	-	-	O	O	O

[Notification contents by Module]

PRODEND:<Time>:<ProductID>'\t'(Tab)<ConveyorName>'\t'(Tab)<ProductMode>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>'\t'(Tab)<CycleTime>'\t'(Tab)<CycleTime2>'\t'(tab)<ModuleNo>

Fig.2.3.8-1

No.	Item name	mean	caption
1	Time	The date and time that the event occurred	YYYYMMDDhhmmsscc
2	ProductID	Panel ID at which production starts.	0-99999 100000-(error)
3	ConveyorName	Conveyor name	LANE1~LANE3 Conveyor name at which production is started.

4	*ProductionMode*	*Production mode*	*0:normal, 1 : pass mode*
5	*ProgramName*	*Recipe name*	
6	*OperatorName*	*Operator name*	
7	*CycleTime*	*The time taken to produce each panel.*	*sec units*
8	*CycleTime2*	*Time from entry into production of relevant panel to completion (msec units)*	*msec units*
9	*ModuleNo*	*Module number*	

Fig.2.3.8-2 (O: Supported, -: not supported)

No	Item name	VME	PCC	XP Series	NXT/AIM /AIMEX/ NXT-H	XPF	GPX/NX TP
1	Time	-	-	-	O	-	-
2	ProductID	-	-	-	O	-	-
3	ConveyorNam e	-	-	-	O	-	-
4	ProductionMod e	-	-	-	O	-	-
5	ProgramName	-	-	-	O	-	-
6	OperatorName	-	-	-	O	-	-
7	CycleTime	-	-	-	O	-	-
8	CycleTime2	-	-	-	O	-	-
9	ModuleNo	-	-	-	O		-

2.3.9 RECIPECHG

When changing recipes.

[Notification contents by Machine]

RECIPECHG:<Time>:<ProgramName>'\t'(Tab)<OperatorName>'\t'(Tab)<ConveyorName>

Fig.2.3.9-1

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*ProgramName*	*Recipe name*	
3	*OperatorName*	*Operator name*	
4	*ConveyorName*	*Conveyor name*	*Conveyor name at which production is started.*

Fig.2.3.9-2 (O: Supported, -: not supported)

No	*Item name*	*VME*	*PCC*	*XP Series*	*NXT/AIM /AIMEX/ NXT-H*	*XPF*	*GPX/NX TP*
1	*Time*	*O*	*O*	*O*	*O*	*O*	*O*
2	*ProgramName*	*O*	*O*	*O*	*O*	*O*	*O*
3	*OperatorName*	*O*	*O*	*O*	*O*	*O*	*O*
4	*ConveyorNam e*	*O*	*O*	*O*	*O*	*O*	*O*

[Notification contents by Module]

RECIPECHG:<Time>:<ProgramName>'\t'(Tab)<OperatorName>'\t'(Tab)<ConveyorName>'\t'(Tab)<CopyJob>'\t'(tab)<ModuleNo>

Fig.2.3.9-3

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*ProgramName*	*Recipe name*	
3	*OperatorName*	*Operator name*	
4	*ConveyorName*	*Conveyor name*	*Conveyor name at which production is started.*
5	*CopyJob*	*Not use*	
6	*ModuleNo*	*Module number*	

Fig.2.3.9-4 (O: Supported, -: not supported)

No	*Item name*	*VME*	*PCC*	*XP Series*	*NXT/AIM /AIMEX/ NXT-H*	*XPF*	*GPX/NX TP*
1	*Time*	*-*	*-*	*-*	*O*	*-*	*-*
2	*ProgramName*	*-*	*-*	*-*	*O*	*-*	*-*
3	*OperatorName*	*-*	*-*	*-*	*O*	*-*	*-*
4	*ConveyorNam e*	*-*	*-*	*-*	*O*	*-*	*-*
5	*CopyJob*	*-*	*-*	*-*	*O*	*-*	*-*
6	*ModuleNo*	*-*	*-*	*-*	*O*	*-*	*-*

2.3.10 PDCOUNT2

This event reports the actual used parts count for each feeder.

From V4.1.0 and later, format differs according to machine type.

[Notification results by Machine]

PDCOUNT2:<Time>:<ProductID>'\t'(Tab)<ConveyorName>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>'\t'(Tab)<StageNo>'\t'(Tab)<GroupKey>'\t'(Tab)<PosNo>'\t'(Tab)<SubPosNo>'\t'(Tab)<PickupCount>'\t'(Tab)<ErrorParts>'\t'(Tab)<ErrorReject>'\t'(Tab)<Reject>'\t'(Tab)<DislodgedParts>'\t'(Tab)<NoPickup>'\t'(Tab)<PartsUsage>'\t'(Tab)<Rescancount>'\t'(Tab)<PartNo>(<AVL>)'\t'(Tab)<UnitPosID>'\t'(Tab)<FIDL>'\t'(Tab)<LCRCheck>

Fig.2.3.10-1

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*ProductID*	*Panel ID at which production starts.*	*0-99999* *100000- (error)*
3	*ConveyorName*	*Conveyor name*	*MAINE, LANE1~LANE3* *Conveyor name at which production is started.*
4	*ProgramName*	*Recipe name*	
5	*OperatorName*	*Operator name*	
6	*StageNo*	*Logical number*	*NXT/AIM/NXT-H: Module number* *AIMEX :* *Robot number (V5.9.x and prior)* *Module number (V6.0.0 and later)* *XPF: 1 (fixed)*
7	*GroupKey*	*Group key*	*NXT/NXT-H: 0 (fixed)* *AIM/AIMEX: Side number (1 or 2)*

			XPF: Unit number *(1:MFU-30, 2:MTU-A, 4:BTU, 7:OTS, 8:ITS, 9:MFU-40)* *NXT-H: Stage number (1 or 2)*
8	*PosNo*	*Position no.*	
9	*SubPosNo*	*Sub-Position no.*	
10	*PickupCount*	*Parts pickup count*	
11	*ErrorParts*	*Error parts count*	
12	*ErrorReject*	*Error rejected parts count*	
13	*Reject*	*Rejected parts count*	
14	*DislodgedParts*	*Dislodged parts count*	
15	*NoPickup*	*Number of parts not used*	
16	*PartsUsage*	*Used parts count*	
17	*Rescancount*	*Rescan count*	
18	*PartNo*	*Part number (AVL name)*	*Support for NXT, AIM, XPF machines added V4.1.0 and later. (Notification contents for machines other than these are the same as before.)*
19	*UnitPosID*	*Unit position ID*	*Support for NXT, AIM, XPF machines added V4.2.0 and later. (Notification contents for machines other than these are the same as before.)*
20	*FIDL*	*FIDL*	*Support V6.0.0 and later*
21	*LCRCheck*	*LCR unit checked parts count*	*Support V6.13.0 and later*

Fig.2.3.10-2 (O: Supported, -: not supported)

No	*Item name*	*VME*	*PCC*	*XP*	*NXT/AIM*	*XPF*	*GPX/*

				Series	/AIMEX/ NXT-H		NXT P
1	Time	O	O	O	O	O	-
2	ProductID	O	O	O	O	O	-
3	ConveyorNam e	O	O	O	O	O	-
4	ProgramName	O	O	O	O	O	-
5	OperatorName	O	O	O	O	O	-
6	StageNo	O	O	O	O	O	-
7	GroupKey	O	O	O	O	O	-
8	PosNo	O	O	O	O	O	-
9	SubPosNo	O	O	O	O	O	-
10	PickupCount	O	O	O	O	O	-
11	ErrorParts	O	O	O	O	O	-
12	ErrorReject	O	O	O	O	O	-
13	Reject	O	O	O	O	O	-
14	DislodgedParts	O	O	O	O	O	-
15	NoPickup	O	O	O	O	O	-
16	PartsUsage	O	O	O	O	O	-
17	Rescancount	O	O	O	O	O	-
18	PartNo	-	-	-	O	O	-
19	UnitPosID	-	-	-	O	O	-
20	FIDL	-	-	-	O	-	-
21	LCRCheck	-	-	-	O	-	-

[Notification results by Module]

PDCOUNT2:<Time>:<ProductID>'\t'(Tab)<ConveyorName>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>'\t'(Tab)<StageNo>'\t'(Tab)<GroupKey>'\t'(Tab)<PosNo>'\t'(Tab)<SubPosNo>'\t'(Tab)<PickupCount>'\t'(Tab)<ErrorParts>'\t'(Tab)<ErrorReject>'\t'(Tab)<Reject>'\t'(Tab)<DislodgedParts>'\t'(Tab)<NoPickup>'\t'(Tab)<PartsUsage>'\t'(Tab)<Rescancount>'\t'(Tab)<PartNo>(<AVL>)'\t'(Tab)<UnitPosID>'\t'(Tab)<FIDL>'\t'(Tab)<ModuleNo>'\t'(Tab)<LCRCheck>

Fig.2.3.10-3

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*ProductID*	*Panel ID at which production starts.*	*0-99999* *100000- (error)*
3	*ConveyorName*	*Conveyor name*	*LANE1~LANE3* *Conveyor name at which production is started.*
4	*ProgramName*	*Recipe name*	
5	*OperatorName*	*Operator name*	
6	*StageNo*	*Side number*	*NXT: 1 (fixed)* *AIM/AIMEX: Side number (1 or 2)* *NXT-H: Stage number (1 or 2)*
7	*GroupKey*	*Group key*	*0 (fixed)*
8	*PosNo*	*Position no.*	
9	*SubPosNo*	*Sub-Position no.*	
10	*PickupCount*	*Parts pickup count*	
11	*ErrorParts*	*Error parts count*	
12	*ErrorReject*	*Error rejected parts count*	

13	*Reject*	*Rejected parts count*	
14	*DislodgedParts*	*Dislodged parts count*	
15	*NoPickup*	*Number of parts not used*	
16	*PartsUsage*	*Used parts count*	
17	*Rescancount*	*Rescan count*	
18	*PartNo*	*Part number (AVL name)*	*Support for NXT, AIM, XPF machines added V4.1.0 and later. (Notification contents for machines other than these are the same as before.)*
19	*UnitPosID*	*Unit position ID*	*Support for NXT, AIM, XPF machines added V4.2.0 and later. (Notification contents for machines other than these are the same as before.)*
20	*FIDL*	*FIDL*	*Support V6.0.0 and later* *AIM:'0x20'*
21	*ModuleNo*	*Module number*	*Support V6.0.0 and later*
22	*LCRCheck*	*LCR unit checked parts count*	*Support V6.13.0 and later*

Fig.2.3.10-4 (O: Supported, -: not supported)

No	*Item name*	*VME*	*PCC*	*XP Series*	*NXT/AIM /AIMEX/ NXT-H*	*XPF*	*GPX/NX TP*
1	*Time*	*-*	*-*	*-*	*O*	*-*	*-*
2	*ProductID*	*-*	*-*	*-*	*O*	*-*	*-*
3	*ProgramName*	*-*	*-*	*-*	*O*	*-*	*-*
4	*ConveyorNam e*	*-*	*-*	*-*	*O*	*-*	*-*
5	*OperatorName*	*-*	*-*	*-*	*O*	*-*	*-*

6	StageNo	-	-	-	O	-	-
7	GroupKey	-	-	-	O	-	-
8	PosNo	-	-	-	O	-	-
9	SubPosNo	-	-	-	O	-	-
10	PickupCount	-	-	-	O	-	-
11	ErrorParts	-	-	-	O	-	-
12	ErrorReject	-	-	-	O	-	-
13	Reject	-	-	-	O	-	-
14	DislodgedParts	-	-	-	O	-	-
15	NoPickup	-	-	-	O	-	-
16	PartsUsage	-	-	-	O	-	-
17	Rescancount	-	-	-	O	-	-
18	PartNo	-	-	-	O	-	-
19	UnitPosID	-	-	-	O	-	-
20	FIDL	-	-	-	O	-	-
21	ModuleNo	-	-	-	O	-	-
22	LCRCheck	-	-	-	O	-	-

2.3.11 PDERROR

This event reports placement-related errors that occur during production.

Format differs according to machine type.

[Notification contents by Machine]

PDERROR:<Time>:<ProductID>'\t'(Tab)<ConveyorName>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>'\t'(Tab)<ErrorCode>'\t'(Tab)<HeadNo>'\t'(Tab)<HolderNo>'\t'(Tab)<NozzleNo>'\t'(Tab)<BoardNo>'\t'(Tab)<Reference>'\t'(Tab)<StageNo>'\t'(Tab)<GroupKey>'\t'(Tab)<PosNo>'\t'(Tab)<SubPosNo>'\t'(Tab)<PartNo>(<AVL>)'\t'(tab)<UnitPosID>'\t'(Tab)<FIDL>'\t'(Tab)<NozzleSerial>

Fig.2.3.11-1

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*ProductID*	*Panel ID at which production starts.*	*0-99999* *100000- (error)*
3	*ConveyorName*	*Conveyor name*	*MAIN, LANE1~LANE3* *Conveyor name at which production is started.*
4	*ProgramName*	*Recipe name*	
5	*OperatorName*	*Operator name*	
6	*ErrorCode*	*Error code for error*	
7	*HeadNo*	*Head no. at which the error occurred.*	*NXT/AIM/NXT-H: Module number* *AIMEX* : *Robot number (V5.9.x and prior)* *Module number (V6.0.0 and later)* *XPF: Stage number*
8	*HolderNo*	*Holder no. at which*	*NXT/NXT-H: 1 (fixed)*

		the error occurred.	*AIM: Head number (1 or 2)* *AIMEX:* *Head number (V5.9.1 and prior)* *Side number (V6.0.0 and later)* *XPF: Head unit number* *(1:MFU-30, 2:MTU-A, 4:BTU, 7:OTS, 8:ITS, 9:MFU-40)*
9	*NozzleNo*	*Nozzle no. at which the error occurred.*	
10	*BoardNo*	*Board no. at which the error occurred.*	
11	*Reference*	*Reference name at which the error occurred.*	
12	*StageNo*	*Stage no. at which the error occurred.*	*NXT/AIM/NXT-H: Module number* *AIMEX:* *Robot number (V5.9.1 and prior)* *Module number (V6.0.0 and later)* *XPF: Stage number*
13	*GroupKey*	*Group key at which the error occurred.*	*NXT: 0 (fixed)* *AIME/AIMEX: Side number* *NXT-H: Stage number* *XPF: Unit type*
14	*PosNo*	*Position no. at which the error occurred.*	
15	*SubPosNo*	*Sub-position no. at which the error occurred.*	
16	*PartNo*	*Part number (AVL name)*	

17	*UnitPosID*	*Unit position ID*	
18	*FIDL*	*FIDL*	
19	*NozzleSerialID*	*Nozzle Serial ID*	*Support V6.0.0 and later*

Fig.2.3.11-2 (O: Supported, -: not supported)

No	Item name	VME	PCC	XP Series	NXT/AIM /AIMEX/ NXT-H	XPF	GPX/ NXTP
1	Time	O	O	O	O	O	-
2	ProductID	O	O	O	O	O	-
3	ConveyorNam e	O	O	O	O	O	-
4	ProgramName	O	O	O	O	O	-
5	OperatorName	O	O	O	O	O	-
6	ErrorCode	O	O	O	O	O	-
7	HeadNo	O	O	O	O	O	-
8	HolderNo	O	O	O	O	O	-
9	NozzleNo	O	O	O	O	O	-
10	BoardNo	O	O	O	O	O	-
11	Reference	O	O	O	O	O	-
12	StageNo	O	O	O	O	O	-
13	GroupKey	O	O	O	O	O	-
14	PosNo	O	O	O	O	O	-
15	SubPosNo	O	O	O	O	O	-
16	PartNo	-	-	-	O	O	-
17	UnitPosID	-	-	-	O	O	-
18	FIDL	-	-	-	O	O	-
19	NozzleSerialID	-	-	-	O	O	-

[Notification contents by Module]

PDERROR:<Time>:<ProductID>'\t'(Tab)<ConveyorName>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>'\t'(Tab)<ErrorCode>'\t'(Tab)<HeadNo>'\t'(Tab)<HolderNo>'\t'(Tab)<NozzleNo>'\t'(Tab)<BoardNo>'\t'(Tab)<Reference>'\t'(Tab)<StageNo>'\t'(Tab)<GroupKey>'\t'(Tab)<PosNo>'\t'(Tab)<SubPosNo>'\t'(Tab)<PartNo>(<AVL>)'\t'(tab)<UnitPosID>'\t'(Tab)<FIDL>'\t'(Tab)<NozzleSerial>'\t'(tab)<ModuleNo>

Fig.2.3.11-3

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*ProductID*	*Panel ID at which production starts.*	*0-99999* *100000- (error)*
3	*ConveyorName*	*Conveyor name*	*LANE1~LANE3* *Conveyor name at which production is started.*
4	*ProgramName*	*Recipe name*	
5	*OperatorName*	*Operator name*	
6	*ErrorCode*	*Error code for error*	
7	*HeadNo*	*Head no. at which the error occurred.*	*NXT/AIM/NXT-H: Head number* *AIMEX* : *Head number (V5.9.x and prior)* *Side number (V6.0.0 and later)*
8	*HolderNo*	*Holder no. at which the error occurred.*	
9	*NozzleNo*	*Nozzle no. at which the error occurred.*	*Nozzle station number + Nozzle station holder number (4 digits)*
10	*BoardNo*	*Board no. at which the error occurred.*	

11	*Reference*	*Reference name at which the error occurred.*	
12	*StageNo*	*Stage no. at which the error occurred.*	*NXT: 1 (fixed)* *AIM/AIMEX: Side number (1 or 2)* *NXT-H: Stage number (1 or 2)*
13	*GroupKey*	*Group key at which the error occurred.*	*0 (fixed)*
14	*PosNo*	*Position no. at which the error occurred.*	
15	*SubPosNo*	*Sub-position no. at which the error occurred.*	
16	*PartNo*	*Part number (AVL name)*	*Support for NXT, AIM, XPF machines added V4.1.0 and later. (Notification contents for machines other than these are the same as before.)*
17	*UnitPosID*	*Unit position ID*	*Support for NXT, AIM, XPF machines added V4.2.0 and later. (Notification contents for machines other than these are the same as before.)*
18	*FIDL*	*FIDL*	*Support V6.0.0 and later*
19	*NozzleSerialID*	*Nozzle Serial ID*	*Support V6.0.0 and later*
20	*ModuleNo*	*Module number*	

Fig.2.3.11-4 (O: Supported, -: not supported)

No	Item name	VME	PCC	XP Series	NXT/AIM /AIMEX/ NXT-H	XPF	GPX/NXTP
1	Time	-	-	-	O	-	-
2	ProductID	-	-	-	O	-	-
3	ConveyorName	-	-	-	O	-	-
4	ProgramName	-	-	-	O	-	-
5	OperatorName	-	-	-	O	-	-
6	ErrorCode	-	-	-	O	-	-
7	HeadNo	-	-	-	O	-	-
8	HolderNo	-	-	-	O	-	-
9	NozzleNo	-	-	-	O	-	-
10	BoardNo	-	-	-	O	-	-
11	Reference	-	-	-	O	-	-
12	StageNo	-	-	-	O	-	-
13	GroupKey	-	-	-	O	-	-
14	PosNo	-	-	-	O	-	-
15	SubPosNo	-	-	-	O	-	-
16	PartNo	-	-	-	O	-	-
17	UnitPosID	-	-	-	O	-	-
18	FIDL	-	-	-	O	-	-
19	NozzleSerialID	-	-	-	O	-	-
29	ModuleNo	-	-	-	O	-	-

2.3.12 NOZZLECOUNT

This event notifies the actual used nozzle count for each nozzle.

[Notification contents by Machine]

NOZZLECOUNT:<Time>:<ProductID>'\t'(Tab)<ConveyorName>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>'\t'(Tab)<HeadNo>'\t'(Tab)<HolderNo>'\t'(Tab)<NozzleNo>'\t'(Tab)<Count>'\t'(Tab)<Rescancount>

Fig.2.3.12-1

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*ProductID*	*Panel ID at which production starts.*	*0-99999* *100000- (error)*
3	*ConveyorName*	*Conveyor name*	*MAIN, LANE1~LANE3* *Conveyor name at which production is started.*
4	*ProgramName*	*Recipe name*	
5	*OperatorName*	*Operator name*	
6	*HeadNo*	*Head no.*	*NXT/AIM/NXT-H: Module number* *AIMEX* : *Robot number (V5.9.x and prior)* *Module number (V6.0.0 and later)* *XPF: Stage number*
7	*HolderNo*	*Nozzle holder no.*	*NXT/AIM/NXT-H: Head number* *AIM: Side number (1 or 2)* *AIMEX:* *Head number (V5.9.1 and prior)*

			Side number (V6.0.0 and later) *XPF: Head unit number* *(1:MFU-30, 2:MTU-A, 4:BTU, 7:OTS, 8:ITS, 9:MFU-40)*
8	*NozzleNo*	*Nozzle no.*	*NXT/AIM/AIMEX/NXT-H/XPF:* *Holder number*
8	*Count*	*Used count for the nozzle*	
9	*Rescancount*	*Board no. at which the error occurred.*	*This item is not included for VME and XP-series Type 2 machines.*

Fig.2.3.12-2 (O: Supported, -: not supported)

No	Item name	VME	PCC	XP Series	NXT/AIM /AIMEX/ NXT-H	XPF	GPX/ NXTP
1	Time	O	O	O	O	O	-
2	ProductID	O	O	O	O	O	-
3	ConveyorNam e	O	O	O	O	O	-
4	ProgramName	O	O	O	O	O	-
5	OperatorName	O	O	O	O	O	-
6	HeadNo	O	O	O	O	O	-
7	HolderNo	O	O	O	O	O	-
8	NozzleNo	O	O	O	O	O	-
9	NozzleNo	O	O	O	O	O	-
10	Count	O	O	O	O	O	-
11	Rescancount	-	-	-	O	O	-

[Notification contents by Module]

NOZZLECOUNT:<Time>:<ProductID>'\t'(Tab)<ConveyorName>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>'\t'(Tab)<HeadNo>'\t'(Tab)<HolderNo>'\t'(Tab)<NozzleNo>'\t'(Tab)<Count>'\t'(Tab)<Rescancount>'\t'(tab)<ModuleNo>

Fig.2.3.12-3

No.	Item name	mean	caption
1	Time	The date and time that the event occurred	YYYYMMDDhhmmsscc
2	ProductID	Panel ID at which production starts.	0-99999 100000- (error)

3	*ConveyorName*	*Conveyor name*	*LANE1~LANE3* *Conveyor name at which production is started.*
4	*ProgramName*	*Recipe name*	
5	*OperatorName*	*Operator name*	
6	*HeadNo*	*Head no.*	*NXT/AIM/NXT-H: Head number* *AIMEX* : *Head number (V5.9.x and prior)* *Side number (V6.0.0 and later)*
7	*HolderNo*	*Nozzle holder no.*	
8	*NozzleNo*	*Nozzle no.*	*Nozzle station number + Nozzle station holder number (4 digits)*
8	*Count*	*Used count for the nozzle*	*Used count for the nozzle*
9	*Rescancount*	*Board no. at which the error occurred.*	*This item is not included for VME and XP-series Type 2 machines.*

Fig.2.3.12-4 (O: Supported, -: not supported)

No	Item name	VME	PCC	XP Series	NXT/AIM /AIMEX/ NXT-H	XPF	GPX/ NXTP
1	Time	-	-	-	O	-	-
2	ProductID	-	-	-	O	-	-
3	ConveyorNam e	-	-	-	O	-	-
4	ProgramName	-	-	-	O	-	-
5	OperatorName	-	-	-	O	-	-
6	HeadNo	-	-	-	O	-	-
7	HolderNo	-	-	-	O	-	-
8	NozzleNo	-	-	-	O	-	-
9	NozzleNo	-	-	-	O	-	-
10	Count	-	-	-	O	-	-
11	Rescancount	-	-	-	O	-	-
12	ModuleNo	-	-	-	O	-	-

2.3.13 MCSTATUS

This event is created each time the machine status changes.

[Notification contents by Machine]

MCSTATUS:
<Time>:<PreviousStatus>'\t'(Tab)<Status>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorNam e>'\t'(Tab)<ErrCode>'\t'(tab)<SideNo>

Fig.2.3.13-1

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*PreviousStatus*	*Previous status (before change)*	*status number immediately before change*
3	*Status*	*Current machine status*	
4	*ProgramName*	*Recipe name*	
5	*OperatorName*	*Operator name*	
6	*ErrCode*	*Error code*	
7	*SideNo*	*SideNo*	*Supported AIMEX. For Multi Production mode.*

Fig.2.3.13-2 (O: Supported, -: not supported)

No	Item name	VME	PCC	XP Series	NXT/AIM /AIMEX/ NXT-H	XPF	GPX/ NXTP
1	Time	O	O	O	O	O	-
2	PreviousStatus	O	O	O	O	O	-
3	Status	O	O	O	O	O	-
4	ProgramName	O	O	O	O	O	-
5	OperatorName	O	O	O	O	O	-
6	ErrCode	O	O	O	O	O	-
7	SideNo	-	-	-	O	-	-

[Notification contents by Module]

MCSTATUS:

<Time>:<PreviousStatus>'\t'(Tab)<Status>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>'\t'(Tab)<ErrCode>'\t'(tab)<ModuleNo>'\t'(tab)<SideNo>

Fig.2.3.13-3

No.	Item name	mean	caption
1	Time	The date and time that the event occurred	YYYYMMDDhhmmsscc
2	PreviousStatus	Previous status (before change)	status number immediately before change
3	Status	Current machine status	
4	ProgramName	Recipe name	
5	OperatorName	Operator name	
6	ErrCode	Error code	

7	ModuleNo	Modue number	Support V6.0.0 and later
8	SideNo	SideNo	Supported AIMEX. For Multi Production mode.

Fig.2.3.13-4 (O: Supported, -: not supported)

No	Item name	VME	PCC	XP Series	NXT/AIM /AIMEX/ NXT-H	XPF	GPX/ NXTP
1	Time	-	-	-	O	-	-
2	PreviousStatus	-	-	-	O	-	-
3	Status	-	-	-	O	-	-
4	ProgramName	-	-	-	O	-	-
5	OperatorName	-	-	-	O	-	-
6	ErrCode	-	-	-	O	-	-
7	ModuleNo	-	-	-	O	-	-
8	SideNo	-	-	-	O	-	-

Fig.2.3.13-5

Status ID	PCC machine	VME machine	NXT/AIM/AIM EX/NXT-H	XP Series	XPF/GPX/ NXTP
0	Idle	IDLE	IDLE	IDLE	IDLE
1	Wait Switch	Wait Switch	Wait Switch	Wait Switch	Wait Switch
2	(Not used)	(Not used)	(Not used)	(Not used)	(Not used)
3	Run	Run	Run	Run	Run
4	(Not used)	(Not used)	(Not used)	(Not used)	(Not used)
5	Error Stop	Stop	Error Stop	Error Stop	Error Stop
6	(Not used)	(Not used)	(Not used)	(Not used)	(Not used)
7	(Not used)	(Not used)	Pair Module Stop	(Not used)	(Not used)
8	(Not used)	(Not used)	Wait Confirmation	(Not used)	(Not used)
9	(Not used)	(Not used)	Confirmation	(Not used)	(Not used)
10	(Not used)	(Not used)	(Not used)	(Not used)	(Not used)
11	Wait Previous	Wait Previous	Wait Previous	Wait Previous	Wait Previous
12	Wait Next	Wait Next	Wait Next	Wait Next	Wait Next
13	Loading	Loading	Loading	Loading	Loading
14	Maintenance	(Not used)	Maintenance	(Not used)	Maintenance
15	Change over	Wait part	Wait Setup	Wait part	Wait Setup
16	Complete	(Not used)	(Not used)	(Not used)	(Not used)
100	(Not used)	200 off	(Not used)	(Not used)	200 off
101	(Not used)	Change over	Change over	Change over	Change over
102	(Not used)	(Not used)	Teaching	(Not used)	(Not used)
103	(Not used)	(Not used)	Calibration	(Not used)	(Not used)

Pcc machine: CP7 Series, CP8 Series, QP3 Series, NP1, NP2

VME machine: CP4 Series, CP6 Series, IP Series, QP132, QP242

TCP machine: NXT, NXT-2(c), NXT-3(c), AIM, AIMEX, AIMEX-2(S), XPF, GPX, NXTP, NXT-H

XP Series: XP142, XP242, XP143, XP243

2.3.14 MCON

This event notifies when the machine is started.

[Notification contents by Machine]

MCON:<Time>:<OperatorName>

Fig.2.3.14-1

No.	*Item name*	*mean*	*Caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*OperatorName*	*Operator name*	

Fig.2.3.14-2 (O: Supported, -: not supported)

No	*Item name*	*VME*	*PCC*	*XP Series*	*NXT/AIM /AIMEX/ NXT-H*	*XPF*	*GPX/ NXTP*
1	*Time*	O	O	O	O	O	O
2	*OperatorName*	O	O	O	O	O	O

[Notification contents by Module]

MCON:<Time>:<OperatorName>'\t'(tab)<ModuleNo>

Fig.2.3.14-3

No.	*Item name*	*mean*	*Caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*OperatorName*	*Operator name*	
3	*ModuleNo*	*Module number*	

Fig.2.3.14-4 (O: Supported, -: not supported)

No	*Item name*	*VME*	*PCC*	*XP Series*	*NXT/AIM /AIMEX/ NXT-H*	*XPF*	*GPX/ NXTP*
1	*Time*	-	-	-	O	-	-
2	*OperatorName*	-	-	-	O	-	-
3	*ModuleNo*	-	-	-	O	-	-

2.3.15 MCOFF

This event notifies when the machine power is turned off.

[Notification contents by Machine]

MCOFF:<Time>:<OperatorName>

Fig.2.3.15-1

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*OperatorName*	*Operator name*	

Fig.2.3.15-2 (O: Supported, -: not supported)

No	*Item name*	*VME*	*PCC*	*XP Series*	*NXT/AIM /AIMEX/ NXT-H*	*XPF*	*GPX/ NXTP*
1	*Time*	O	O	O	O	O	O
2	*OperatorName*	O	O	O	O	O	O

[Notification contents by Module]

MCFF:<Time>:<OperatorName>'\t'(tab)<ModuleNo>

Fig.2.3.15-3

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*OperatorName*	*Operator name*	
3	*ModuleNo*	*Module number*	

Fig.2.3.15-4 (O: Supported, -: not supported)

No	*Item name*	*VME*	*PCC*	*XP Series*	*NXT/AIM /AIMEX/ NXT-H*	*XPF*	*GPX/ NXTP*
1	*Time*	-	-	-	O	-	-
2	*OperatorName*	-	-	-	O	-	-
3	*ModuleNo*	-	-	-	O	-	-

2.3.16 CONNECTOFF

This event notifies when communications are cut.

[Notification contents by Machine]

CONNECTOFF:<Time>:

Fig.2.3.16-1

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*

Fig.2.3.16-2 (O: Supported, -: not supported)

No	*Item name*	*VME*	*PCC*	*XP Series*	*NXT/AIM /AIMEX/ NXT-H*	*XPF*	*GPX/ NXTP*
1	*Time*	O	O	O	O	O	O

[Notification contents by Module]

CONNECTOFF:<Time>:<ModuleNo>

Fig.2.3.16-3

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
3	*ModuleNo*	*Module number*	

Fig.2.3.16-4 (O: Supported, -: not supported)

No	*Item name*	*VME*	*PCC*	*XP Series*	*NXT/AIM /AIMEX/ NXT-H*	*XPF*	*GPX/ NXTP*
1	*Time*	-	-	-	O	-	-
2	*ModuleNo*	-	-	-	O	-	-

[List of internal IDs of status when MCOFF and CONNECTOFF events are generated]

Status ID	**PCC machine**	**VME machine**	**NXT/AIM/AIMEX/NXT-H**	**XP Series**	**XPF/GPX/ NXTP**
200	MC Off	MC Off	MC Off	MC Off	MC Off
201	ConnectOff	ConnectOff	ConnectOff	ConnectOff	ConnectOff

Pcc machine: CP7 Series, CP8 Series, QP3 Series, NP1, NP2

VME machine: CP4 Series, CP6 Series, IP Series, QP132, QP242

TCP machine: NXT, NXT-2(c), NXT-3(c), AIM, AIMEX, AIMEX-2(S), XPF, GPX, NXTP, NXT-H

XP Series: XP142, XP242, XP143, XP243

2.3.17 FEEDERSTATUS

This even notifies the loading of each feeder.

[Notification contents by Machine]

FEEDERSTATUS:<Time>:
<OperatorName>'\t'(Tab)<StageNo>'\t'(Tab)<GroupKey>'\t'(Tab)<PosNo>'\t'(Tab)<SubPos No>'\t'(Tab)<PartNo>'\t'(Tab)<UnitPosID>'\t'(Tab)<FIDL>'\t'(Tab)<Status>

Fig.2.3.17-1

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*OperatorName*	*Operator name*	
3	*StageNo*	*Stage number*	*NXT/AIN/NXT-H: Module number* *AIMEX* : *Robot number (V5.9.x and prior)* *Module number (V6.0.0 and later)* *XPF: Stage number*
4	*GroupKey*	*Group key*	*NXT: 0 (fixed)* *AIM/AIMEX: Side number (1 or 2)* *XPF: Unit number* *(1:MFU-30, 2:MTU-A, 4:BTU, 7:OTS, 8:ITS, 9:MFU-40)* *NXT-H: Stage number (1 or 2)*
5	*PosNo*	*Position number*	
6	*SubPosNo*	*Sub position number*	
7	*PartNo*	*Part number*	
8	*UnitPosID*	*Unit position ID*	
9	*FIDL*	*Feeder serial ID*	
10	*Status*	*Loading status.*	*0=feeder out, 1=feeder in*

Fig.2.3.17-2 (O: Supported, -: not supported)

No	Item name	VME	PCC	XP Series	NXT/AIM /AIMEX/ NXT-H	XPF	GPX/ NXTP
1	Time	-	-	-	O	O	-
2	OperatorName	-	-	-	O	O	-
3	StageNo	-	-	-	O	O	-
4	GroupKey	-	-	-	O	O	-
5	PosNo	-	-	-	O	O	-
6	SubPosNo	-	-	-	O	O	-
7	PartNo	-	-	-	O	O	-
8	UnitPosID	-	-	-	O	O	-
9	FIDL	-	-	-	O	O	-
10	Status	-	-	-	O	O	-

[Notification contents by Module]

FEEDERSTATUS:<Time>:
<OperatorName>'\t'(Tab)<StageNo>'\t'(Tab)<GroupKey>'\t'(Tab)<PosNo>'\t'(Tab)<SubPosNo>'\t'(Tab)<PartNo>'\t'(Tab)<UnitPosID>'\t'(Tab)<FIDL>'\t'(Tab)<Status>'\t'(tab)<ModuleNo>

Fig.2.3.17-3

No.	*Item name*	*mean*	*Caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*OperatorName*	*Operator name*	
3	*StageNo*	*Stage number*	*NXT: 1(fixed)* *AIM/AIMEX: Side number (1 or 2)* *NXT-H: Stage number (1 or 2)*
4	*GroupKey*	*Group key*	*NXT/AIMEX/AIMEX/NXT-H: 0 (fixed)*
5	*PosNo*	*Position number*	
6	*SubPosNo*	*Sub position number*	
7	*PartNo*	*Part number*	
8	*UnitPosID*	*Unit position ID*	
9	*FIDL*	*Feeder serial ID*	*Not supported machine is space character.(fixed)*
10	*Status*	*Loading status.*	*0=feeder out* *1=feeder in*
11	*ModuleNo*	*Module number*	

Fig.2.3.17-4 (O: Supported, -: not supported)

No	*Item name*	*VME*	*PCC*	*XP Series*	*NXT/AIM /AIMEX/ NXT-H*	*XPF*	*GPX/ NXTP*
1	*Time*	*-*	*-*	*-*	*O*	*-*	*-*

2	*OperatorName*	-	-	-	*O*	-	-
3	*StageNo*	-	-	-	*O*	-	-
4	*GroupKey*	-	-	-	*O*	-	-
5	*PosNo*	-	-	-	*O*	-	-
6	*SubPosNo*	-	-	-	*O*	-	-
7	*PartNo*	-	-	-	*O*	-	-
8	*UnitPosID*	-	-	-	*O*	-	-
9	*FIDL*	-	-	-	*O*	-	-
10	*Status*	-	-	-	*O*	-	-
11	*ModuleNO*	-	-	-	*O*	-	-

** V4.3.0 and later. (No notification for other machines).*

2.3.18 BOARDCOUNT

Created when the number of produced boards is counted.

[Notification contents by Machine]

BOARDCOUNT:<Time>:<ProductID>'\t'(Tab)<ConveyorName>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>'\t'(Tab)<BoardsSkipped>'\t'(Tab)<BoardCount>

Fig.2.3.18-1

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*ProductID*	*Produced panel ID*	*0-99999* *100000-(error)*
3	*ConveyorName*	*conveyor name that completed production*	*MAINE, LANE1~3*
4	*ProgramName*	*Recipe name*	
5	*OperatorName*	*Operator name*	
6	*BoardsSkipped*	*Number of panels skipped*	
7	*BoardCount*	*Number of produced panels.*	

Fig.2.3.18-2 (O: Supported, -: not supported)

No	Item name	VME	PCC	XP Series	NXT/AIM /AIMEX/ NXT-H	XPF	GPX/ NXTP
1	Time	O	O	O	O	O	O
2	ProductID	O	O	O	O	O	O
3	ConveyorNam e	O	O	O	O	O	O
4	ProgramName	O	O	O	O	O	O
5	OperatorName	O	O	O	O	O	O
6	BoardsSkipped	O	O	O	O	O	O
7	BoardCount	O	O	O	O	O	O

[Notification contents by Module]

BOARDCOUNT:<Time>:<ProductID>'\t'(Tab)<ConveyorName>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>'\t'(Tab)<BoardsSkipped>'\t'(Tab)<BoardCount>'\t'(tab)<ModuleNo>

Fig.2.3.18-3

No.	Item name	mean	caption
1	Time	The date and time that the event occurred	YYYYMMDDhhmmsscc
2	ProductID	Produced panel ID	0-99999 100000-(error)
3	ConveyorName	conveyor name that completed production	LANE1~LANE3
4	ProgramName	Recipe name	
5	OperatorName	Operator name	
6	BoardsSkipped	Number of panels	

		skipped	
7	*BoardCount*	*Number of produced panels.*	
8	*ModuleNo*	*Module number*	*Support V6.0.0 and later*

Fig.2.3.18-4 (O: Supported, -: not supported)

No	*Item name*	*VME*	*PCC*	*XP Series*	*NXT/AIM /AIMEX/ NXT-H*	*XPF*	*GPX/ NXTP*
1	*Time*	*-*	*-*	*-*	*O*	*-*	*-*
2	*ProductID*	*-*	*-*	*-*	*O*	*-*	*-*
3	*ConveyorNam e*	*-*	*-*	*-*	*O*	*-*	*-*
4	*ProgramName*	*-*	*-*	*-*	*O*	*-*	*-*
5	*OperatorName*	*-*	*-*	*-*	*O*	*-*	*-*
6	*BoardsSkipped*	*-*	*-*	*-*	*O*	*-*	*-*
7	*BoardCount*	*-*	*-*	*-*	*O*	*-*	*-*
8	*ModuleNo*	*-*	*-*	*-*	*O*	*-*	*-*

2.3.19 PASSMODE

Used when the number of produced boards is counted in pass mode production. Generated when production in pass mode is started.

[Notification contents by Machine]

PASSMODE:<Time>:<ProductID>'\t'(Tab)<ConveyorName>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>

Fig.2.3.19-1

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*ProductID*	*Panel ID at which production starts.*	*0-99999* *100000-(error)*
3	*ConveyorName*	*Conveyor name*	*MAIN, LANE1-LANE3* *Conveyor name at which production is started.*
4	*ProgramName*	*Recipe name*	
5	*OperatorName*	*Operator name*	

Fig.2.3.19-2 (O: Supported, -: not supported)

No	Item name	VME	PCC	XP Series	NXT/AIM /AIMEX/ NXT-H	XPF	GPX/NX TP
1	Time	O	O	O	O	O	O
2	ProductID	O	O	O	O	O	O
3	ConveyorNam e	O	O	O	O	O	O
4	ProgramName	O	O	O	O	O	O
5	OperatorName	O	O	O	O	O	O

[Notification contents by Module]

PASSMODE:<Time>:<ProductID>'\t'(Tab)<ConveyorName>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>'\t'(tab)<ModuleNo>

Fig.2.3.19-3

No.	Item name	mean	caption
1	Time	The date and time that the event occurred	YYYYMMDDhhmmsscc
2	ProductID	Panel ID at which production starts.	0-99999 100000-(error)
3	ConveyorName	Conveyor name	MAIN, LANE1-LANE3 Conveyor name at which production is started.
4	ProgramName	Recipe name	
5	OperatorName	Operator name	
6	ModuleNo	Module number	Support V6.0.0 and later

Fig.2.3.19-4 (O: Supported, -: not supported)

No	Item name	VME	PCC	XP Series	NXT/AIM /AIMEX/ NXT-H	XPF	GPX/NX TP
1	Time	-	-	-	O	-	-
2	ProductID	-	-	-	O	-	-
3	ConveyorNam e	-	-	-	O	-	-
4	ProgramName	-	-	-	O	-	-
5	OperatorName	-	-	-	O	-	-
6	ModuleNo	-	-	-	O	-	-

2.3.20 PARTSOUTERROR

Created when a parts out occurs.

[Notification contents by Machine]

PARTSOUTERROR:<Time>:<ProgramName>'\t'(Tab)<OperatorName>'\t'(Tab)<StageNo>'\t'(Tab)<GroupKey>'\t'(Tab)<PosNo>'\t'(Tab)<SubPosNo>'\t'(Tab)<Class>'\t'(Tab)<PartNo>

Fig.2.3.20-1

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*ProgramName*	*Recipe name*	
3	*OperatorName*	*Operator name*	*Conveyor name at which production is started.* *MAIN*
4	*StageNo*	*Stage number*	
5	*GroupKey*	*Group key*	
6	*PosNo*	*Position number*	
7	*SubPosNo*	*Sub position number*	
8	*Class*	*Group class*	*0= "TAPE", 1= "TRAY"*
9	*PartNo*	*Part number*	

Fig.2.3.20-2 (O: Supported, -: not supported)

No	*Item name*	*VME*	*PCC*	*XP Series*	*NXT/AIM /AIMEX/ NXT-H*	*XPF*	*GPX/NXTP*
1	*Time*	*O*	*O*	*O*	*-*	*-*	*-*
2	*ProgramName*	*O*	*O*	*O*	*-*	*-*	*-*
3	*OperatorName*	*O*	*O*	*O*	*-*	*-*	*-*

4	*StageNo*	*O*	*O*	*O*	-	-	-
5	*GroupKey*	*O*	*O*	*O*	-	-	-
6	*PosNo*	*O*	*O*	*O*	-	-	-
7	*SubPosNo*	*O*	*O*	*O*	-	-	-
8	*Class*	*O*	*O*	*O*	-	-	-
9	*PartNo*	*O*	*O*	*O*	-	-	-

2.3.21 PARTSOUTWARNING

Created when a parts out warning occurs.

[Notification contents by Machine]

PARTSOUTWARNING:<Time>:<ProgramName>'\t'(Tab)<OperatorName>'\t'(Tab)<Stage No>'\t'(Tab)<GroupKey>'\t'(Tab)<PosNo>'\t'(Tab)<SubPosNo>'\t'(Tab)<Class>'\t'(Tab)<PartNo>

Fig.2.3.21-1

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*ProgramName*	*Recipe name*	
3	*OperatorName*	*Operator name*	
4	*StageNo*	*Stage number*	
5	*GroupKey*	*Group key*	
6	*PosNo*	*Position number*	
7	*SubPosNo*	*Sub position number*	
8	*Class*	*Group class*	*0= "TAPE", 1= "TRAY"*
9	*PartNo*	*Part number*	

Fig.2.3.21-2 (O: Supported, -: not supported)

No	*Item name*	*VME*	*PCC*	*XP Series*	*NXT/AIM /AIMEX/ NXT-H*	*XPF*	*GPX/NXTP*
1	*Time*	*O*	*O*	*O*	*O*	*O*	*-*
2	*ProgramName*	*O*	*O*	*O*	*O*	*O*	*-*
3	*OperatorName*	*O*	*O*	*O*	*O*	*O*	*-*
4	*StageNo*	*O*	*O*	*O*	*O*	*O*	*-*
5	*GroupKey*	*O*	*O*	*O*	*O*	*O*	*-*

6	PosNo	O	O	O	O	O	-
7	SubPosNo	O	O	O	O	O	-
8	Class	O	O	O	O	O	-
9	PartNo	O	O	O	O	O	-

[Notification contents by Module]

PARTSOUTWARNING:<Time>:<ProgramName>'\t'(Tab)<OperatorName>'\t'(Tab)<Stage No>'\t'(Tab)<GroupKey>'\t'(Tab)<PosNo>'\t'(Tab)<SubPosNo>'\t'(Tab)<Class>'\t'(Tab)<PartNo>'\t'(tab)<ModuleNo>

Fig.2.3.21-3

No.	Item name	mean	caption
1	Time	The date and time that the event occurred	YYYYMMDDhhmmsscc
2	ProgramName	Recipe name	
3	OperatorName	Operator name	
4	StageNo	Stage number	
5	GroupKey	Group key	
6	PosNo	Position number	
7	SubPosNo	Sub position number	
8	Class	Group class	0= "TAPE", 1= "TRAY"
9	PartNo	Part number	
10	ModuleNo	Module number	Support V6.0.0 and later

Fig.2.3.21-4 (O: Supported, -: not supported)

No	Item name	VME	PCC	XP Series	NXT/AIM /AIMEX/ NXT-H	XPF	GPX/NXTP

1	Time	-	-	-	O	-	-
2	ProgramName	-	-	-	O	-	-
3	OperatorName	-	-	-	O	-	-
4	StageNo	-	-	-	O	-	-
5	GroupKey	-	-	-	O	-	-
6	PosNo	-	-	-	O	-	-
7	SubPosNo	-	-	-	O	-	-
8	Class	-	-	-	O	-	-
9	PartNo	-	-	-	O	-	-
10	ModuleNo	-	-	-	O	-	-

2.3.22 RECIPEDEL

When a recipe is deleted.

[Notification contents by Machine]

RECIPEDEL:<Time>:<ProgramName>'\t'(Tab)<OperatorName>'\t'(Tab)<ConveyorName>

Fig.2.3.22-1

No.	Item name	mean	caption
1	Time	The date and time that the event occurred	YYYYMMDDhhmmsscc
2	ProgramName	Recipe name	
3	OperatorName	Operator name	
4	ConveyorName	Conveyor name	MAINE, LANE1-LANE3

Fig.2.3.22-2 (O: Supported, -: not supported)

No	Item name	VME	PCC	XP Series	NXT/AIM /AIMEX/ NXT-H	XPF	GPX/NX TP

1	Time	-	-	-	O	-	-
2	ProgramName	-	-	-	O	-	-
3	OperatorName	-	-	-	O	-	-
4	ConveyorNam e	-	-	-	O	-	-

[Notification contents by Module]

RECIPEDEL:<Time>:<ProgramName>'\t'(Tab)<OperatorName>'\t'(Tab)<ConveyorName>' \t'(tab)<ModuleNo>

Fig.2.3.22-3

No.	Item name	mean	caption
1	Time	The date and time that the event occurred	YYYYMMDDhhmmsscc
2	ProgramName	Recipe name	
3	OperatorName	Operator name	
4	ConveyorName	Conveyor name	LANE1~LANE3
5	ModuleNo	Module number	

Fig.2.3.22-4 (O: Supported, -: not supported)

No	Item name	VME	PCC	XP Series	NXT/AIM /AIMEX/ NXT-H	XPF	GPX/NX TP
1	Time	-	-	-	O	-	-
2	ProgramName	-	-	-	O	-	-
3	OperatorName	-	-	-	O	-	-
4	ConveyorNam e	-	-	-	O	-	-
5	ModuleNo	-	-	-	O	-	-

2.3.23 ALARMSET

Notification occurs when an alarm is generated.

[Notification contents]

ALARMSET:<Time>:<PreviousStatus>'\t'(Tab)<Status>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>'\t'(Tab)<ErrCode>

Fig.2.3.23-1

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*PreviousStatus*	*Previous status (before change)*	*status number immediately before change*
3	*Status*	*Current machine status*	
4	*ProgramName*	*Recipe name*	
5	*OperatorName*	*Operator name*	
6	*ErrCode*	*Error code*	

Fig.2.3.23-2 (O: Supported, -: not supported)

No	*Item name*	*VME*	*PCC*	*XP Series*	*NXT/AIM /AIMEX/ NXT-H*	*XPF*	*GPX/ NXTP*
1	*Time*	*O*	*O*	*O*	*O*	*O*	*O*
2	*PreviousStatus*	*O*	*O*	*O*	*O*	*O*	O
3	*Status*	*O*	*O*	*O*	*O*	*O*	O
4	*ProgramName*	*O*	*O*	*O*	*O*	*O*	O
5	*OperatorName*	*O*	*O*	*O*	*O*	*O*	O
6	*ErrCode*	*O*	*O*	*O*	*O*	*O*	O

[Notification contents by Module]

ALARMSET:<Time>:<PreviousStatus>'\t'(Tab)<Status>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>'\t'(Tab)<ErrCode>'\t'(tab)<ModuleNo>

Fig.2.3.23-3

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*PreviousStatus*	*Previous status (before change)*	*status number immediately before change*
3	*Status*	*Current machine status*	
4	*ProgramName*	*Recipe name*	
5	*OperatorName*	*Operator name*	
6	*ErrCode*	*Error code*	
7	*ModuleNo*	*Module number*	*Support V6.0.0 and later*

Fig.2.3.23-4 (O: Supported, -: not supported)

No	*Item name*	*VME*	*PCC*	*XP Series*	*NXT/AIM /AIMEX/ NXT-H*	*XPF*	*GPX/ NXTP*
1	*Time*	*-*	*-*	*-*	*O*	*-*	*-*
2	*PreviousStatus*	*-*	*-*	*-*	*O*	*-*	*-*
3	*Status*	*-*	*-*	*-*	*O*	*-*	*-*
4	*ProgramName*	*-*	*-*	*-*	*O*	*-*	*-*
5	*OperatorName*	*-*	*-*	*-*	*O*	*-*	*-*
6	*ErrCode*	*-*	*-*	*-*	*O*	*-*	*-*
7	*ModuleNo*	*-*	*-*	*-*	*O*	*-*	*-*

2.3.24 ALARMCLEAR

When an alarm is generated and then cleared.

[Notification contents by Machine]

ALARMCLEAR:<Time><PreviousStatus>'\t'(Tab)<Status>'\t'(Tab)<ProgramName>'\t'(Tab)<OperatorName>'\t'(Tab)<ErrCode>

Fig.2.3.24-1

No.	Item name	mean	caption
1	Time	The date and time that the event occurred	YYYYMMDDhhmmsscc
2	PreviousStatus	Previous status (before change)	status number immediately before change
3	Status	Current machine status	
4	ProgramName	Recipe name	
5	OperatorName	Operator name	
6	ErrCode	Error code	

Fig.2.3.24-2 (O: Supported, -: not supported)

No	Item name	VME	PCC	XP Series	NXT/AIM /AIMEX/ NXT-H	XPF	GPX/ NXTP
1	Time	O	O	O	O	O	O
2	PreviousStatus	O	O	O	O	O	O
3	Status	O	O	O	O	O	O
4	ProgramName	O	O	O	O	O	O
5	OperatorName	O	O	O	O	O	O
6	ErrCode	O	O	O	O	O	O

[Notification contents by Module]

ALARMCLEAR:<Time><PreviousStatus>'\t'(Tab)<Status>'\t'(Tab)<ProgramName>'\t'(Tab)
<OperatorName>'\t'(Tab)<ErrCode>'\t'(tab)<ModuleNo>

Fig.2.3.24-3

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*PreviousStatus*	*Previous status (before change)*	*status number immediately before change*
3	*Status*	*Current machine status*	
4	*ProgramName*	*Recipe name*	
5	*OperatorName*	*Operator name*	
6	*ErrCode*	*Error code*	
7	*ModuleNo*	*Module number*	*Support V6.0.0 and later*

Fig.2.3.24-4 (O: Supported, -: not supported)

No	*Item name*	*VME*	*PCC*	*XP Series*	*NXT/AIM /AIMEX/ NXT-H*	*XPF*	*GPX/ NXTP*
1	*Time*	*-*	*-*	*-*	*O*	*-*	*-*
2	*PreviousStatus*	*-*	*-*	*-*	*O*	*-*	*-*
3	*Status*	*-*	*-*	*-*	*O*	*-*	*-*
4	*ProgramName*	*-*	*-*	*-*	*O*	*-*	*-*
5	*OperatorName*	*-*	*-*	*-*	*O*	*-*	*-*
6	*ErrCode*	*-*	*-*	*-*	*O*	*-*	*-*
7	*ModuleNo*	*-*	*-*	*-*	*O*	*-*	*-*

2.3.25 PARTSOUTERROR2

Created when a parts out occurs.

[Notification contents by Machine]

PARTSOUTERROR2:<Time>:<ProductID>'\t'(Tab)<ConveyorName>'\t'(Tab)<OperatorName>'\t'(Tab)<StageNo>'\t'(Tab)<GroupKey>'\t'(Tab)<PosNo>'\t'(Tab)<SubPosNo>'\t'(Tab)<AVL>'\t'(Tab)<PartNo>'\t'(Tab)<BarcodeLabel>'\t'(Tab)<UnitPosID>'\t'(Tab)<FIDL>'\t'(Tab)<BoardNo>'\t'(Tab)<Reference>

Fig.2.3.25-1

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*ProductID*	*Panel ID where parts out occurred.*	
3	*ConveyorName*	*Conveyor where parts out occurred.*	*MAIN, LANE1-3*
4	*OperatorName*	*Operator name*	
5	*StageNo*	*Stage number*	*NXT/AIM/NXT-H: Module number* *AIMEX* : *Robot number (V5.9.x and prior)* *Module number (V6.0.0 and later)* *XPF: Stage number*
6	*GroupKey*	*Group key*	*NXT: 0 (fixed)* *AIM/AIMEX: Side number (1 or 2)* *XPF: Unit number* *(1:MFU-30, 2:MTU-A, 4:BTU, 7:OTS, 8:ITS, 9:MFU-40)* *NXT-H: Stage number (1 or 2)*
7	*PosNo*	*Position number*	

8	SubPosNo	Sub position number	
9	AVL	AVL name	
10	PartNo	Part number	
11	BarcodeLabel	Part number	
12	UnitPosID	Unit position ID	
13	FIDL	Feeder serial ID	
14	BoardNo	Board number	
15	Reference	Reference	

Fig.2.3.25-2 (O: Supported, -: not supported)

No	Item name	VME	PCC	XP Series	NXT/AIM /AIMEX/ NXT-H	XPF	GPX/NXTP
1	Time	-	-	-	O	O	-
2	ProductID	-	-	-	O	O	-
3	ConveyorName	-	-	-	O	O	-
4	OperatorName	-	-	-	O	O	-
5	StageNo	-	-	-	O	O	-
6	GroupKey	-	-	-	O	O	-
7	PosNo	-	-	-	O	O	-
8	SubPosNo	-	-	-	O	O	-
9	AVL	-	-	-	O	O	-
10	PartNo	-	-	-	O	O	-
11	BarcodeLabel	-	-	-	O	O	-
12	UnitPosID	-	-	-	O	O	-
13	FIDL	-	-	-	O	O	-
14	BoardNo	-	-	-	O	O	-

15	*Reference*	*-*	*-*	*-*	*O*	*O*	*-*

[Notification contents by Module]

PARTSOUTERROR2:<Time>:<ProductID>'\t'(Tab)<ConveyorName>'\t'(Tab)<OperatorName>'\t'(Tab)<StageNo>'\t'(Tab)<GroupKey>'\t'(Tab)<PosNo>'\t'(Tab)<SubPosNo>'\t'(Tab)<AVL>'\t'(Tab)<PartNo>'\t'(Tab)<BarcodeLabel>'\t'(Tab)<UnitPosID>'\t'(Tab)<FIDL>'\t'(Tab)<BoardNo>'\t'(Tab)<Reference>'\t'(tab)<ModuleNo>

Fig.2.3.25-1

No.	*Item name*	*mean*	*caption*
1	*Time*	*The date and time that the event occurred*	*YYYYMMDDhhmmsscc*
2	*ProductID*	*Panel ID where parts out occurred.*	
3	*ConveyorName*	*Conveyor where parts out occurred.*	*LANE1-LANE3*
4	*OperatorName*	*Operator name*	
5	*StageNo*	*Stage number*	*NXT: (fixed)* *AIM/AIMEX: Side number* *NXT-H: Stage number*
6	*GroupKey*	*Group key*	*0 (fixed)*
7	*PosNo*	*Position number*	
8	*SubPosNo*	*Sub position number*	
9	*AVL*	*AVL name*	
10	*PartNo*	*Part number*	
11	*BarcodeLabel*	*Part number*	
12	*UnitPosID*	*Unit position ID*	
13	*FIDL*	*Feeder serial ID*	

14	BoardNo	Board number	
15	Reference	Reference	
16	ModuleNo	Module number	

Fig.2.3.25-2 (O: Supported, -: not supported)

No	Item name	VME	PCC	XP Series	NXT/AIM /AIMEX/ NXT-H	XPF	GPX/NXTP
1	Time	-	-	-	O	-	-
2	ProductID	-	-	-	O	-	-
3	ConveyorName	-	-	-	O	-	-
4	OperatorName	-	-	-	O	-	-
5	StageNo	-	-	-	O	-	-
6	GroupKey	-	-	-	O	-	-
7	PosNo	-	-	-	O	-	-
8	SubPosNo	-	-	-	O	-	-
9	AVL	-	-	-	O	-	-
10	PartNo	-	-	-	O	-	-
11	BarcodeLabel	-	-	-	O	-	-
12	UnitPosID	-	-	-	O	-	-
13	FIDL	-	-	-	O	-	-
14	BoardNo	-	-	-	O	-	-
15	Reference	-	-	-	O	-	-
16	ModuleNo	-	-	-	O	-	-