

**Nexim**  
**Database Structure**  
**Ver. 2.5.0**

Database Management Version  
R2.40.30.00

**For Traceability**

**FUJI CORPORATION**

**Confidential****Revision History**

Date	Details
06/15/2020	create a new entry
05/16/2022	<p>Added support for NeximV2.5.0 changes.</p> <ul style="list-style-type: none"><li>▪ Add column to Dkey table.</li><li>▪ Add column to DeviceTrace table.</li></ul>

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# Overview

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## Purpose

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This manual defines the configuration of the database used by Nexim.

## Compatible Databases

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Nexim supports the following database.

- Oracle 11.2.0
- Oracle 12.2.0
- SQL Server 2014
- SQL Server 2016
- SQL Server 2017

## Summary

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Nexim uses three types of tables.

Both Nexim Profiler and Nexim Verifier use the "Tables for Common" category.

Nexim Profiler uses the "Tables for Profiler" category.

Nexim Verifier uses the "Tables for Verifier" category.

Tables for Common	
MachineNames	Saves the data for each machine.
LineNames	Saves the line data.
LineDesc	Saves configuration data for each machine in the line.
SystemInfo	Saves all system settings.
SystemTrace	Saves the system error log.
ApplicationMaster	Saves the application IDs.
T_LOC	Saves data about the current feeder and part positions.
BaseConfig	Saves the NXT base configuration.
ModuleConfig	Saves the module configuration for NXT bases.
CameraConfig	Saves the panel camera settings information.
ConveyerInfo	Saves the conveyor information.
Line status	Saves the current line status.
T_Ver	Saves the database version number.
UnwantedLot	Stores the registered UnwantedLot relationship.
UnwantedTrace	Stores the history for UnwantedLot discovered in the line.
Tables for Profiler	
BlockInfo	Saves block data for PCBs produced by the machine.
Bkey	Saves backup plate ID key information.
DeviceTrace	Saves data about devices used in production.
Dkey	Saves data about the device that was used each time a part is placed.
MaskSetting	Saves mask setting information.
Mkey	Saves mask ID key information.

Nkey	Saves data about the nozzle that was used each time a part is placed.
NozzleTrace	Saves data about nozzles used in production.
PanelGroupTrace	Stores information relating to panel groups administered by users.
PanelIDReport	Saves panel position information.
PCBLINK	Saves information when a panel ID is read by a module during production in order to link the temporarily allocated panel ID with the actual panel.
PcbTrace	Saves information about panels produced by the machine.
PrintSeq	Save printing sequence information.
PrintSetting	Saves printing setting information.
PrintInfo	Saves printing results information.
Placement	Saves information about the placement of parts for each machine.
TouchdownResult	Saves touchdown sensor related information.
QHkey	Saves squeegee holder ID key information.
Qkey	Saves squeegee ID key information.
Rkey	Saves the reference information used when placing parts.
Skey	Saves solder ID key information.
Pkey	Saves placement parameters which were used in the placement sequence. A record is added when the job is changed.
Tables for Verifier	
T_DID	Saves data about parts being used.
T_DRY	Saves information relating to dry components.
BULKCASESPEC	This is required information when calculating the remaining possible production time for bulk parts.
T_PBAR_MANUFACTURE	This specifies the package, shape, and direction by each manufacturer (by the part barcode before converting) and part master.

Explanations of each table are given below in the following format.

Row Name	Name of table's physical row.
PK	Indicates whether a primary key is set in this row. An "O" mark indicates that a primary key is set.
Data Type	Indicates the row's data type.
Max. Length	Indicates the row's max. data size (bytes).
Explanation	Explanation of data saved in this row.

## **Database Administration Logon Information**

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This displays the following user logon information for database administrator authorization.

User Name	Password
SYS (Oracle)	asa
SYSTEM (Oracle)	asa
Fujiaadmin	This is the Fujiaadmin password registered when set from the KIT Database Wizard.
Fujiuser	This is the Fujiuser password registered when set from the KIT Database Wizard.

## Table Specifications

### ApplicationMaster V/P/S

Application and ID association information are stored in the ApplicationMaster table.

Row Name	PK	Data Type	Max. Length	Default	Explanation
ApplicationID	O	NUMBER/N UMERIC	4		Shows the ID used to indicate the application.
ApplicationName		VARCHAR2/ VARCHAR	64	Null	Indicates the application name

The constants in this table are preset in the database. (See "[ApplicationMaster](#)")

### BaseConfig [For Backup] V/(P)/S

The NXT base configuration is stored in the BaseConfig table.

Row Name	PK	Data Type	Max. Length	Default	Explanation
McID	(	NUMBER/N UMERIC	4		This is a unique integer used to identify the machine.
BaseName	(	VARCHAR2/ VARCHAR	64		Base name
BasePosition		NUMBER/N UMERIC	4	0	Base position. ((not possible to jump numbers)) 1-16
BaseType		NUMBER/N UMERIC	4	0	Base type 2 4 6 8
CentralServerName		VARCHAR2/ VARCHAR	64	Null	Central Server host name
MainteServerName		VARCHAR2/ VARCHAR	64	Null	Maintenance Server host name
ProfilerServerName		VARCHAR2/ VARCHAR	64	Null	Profiler Central Server host name

### Bkey [For Backup] P/S

The Bkey table saves backup plate ID key information.

Row Name	PK	Data Type	Max. Length	Default	Explanation
BKey	O	NUMBER/NUMERIC	16	0	Backup plate ID key Link key for PrintInfo table.
BLPID		VARCHAR2/VARCHAR	128	NULL	Backup plate ID
BLPNAM		VARCHAR2/VA	64	NULL	Backup plate name

Row Name	PK	Data Type	Max. Length	Default	Explanation	
		RCHAR				
BLPVND		VARCHAR2/VA RCHAR	64	NULL	Backup plate vendor	
BLPLOT		VARCHAR2/VA RCHAR	64	NULL	Backup plate lot number	
BLPDTE		VARCHAR2/VA RCHAR	64	NULL	Backup plate date code	
EndTime		DATE/DATETIME	-		Production completed time for the newest panel produced on which the current Bkey was used.	

## BlockInfo [For Backup]

P/S

Block information for panels produced by the machine is saved in the "BlockInfo" table.

When block IDs are read for each block on a multiblock panel, etc., the block ID (Block ID) for each block number is saved.

Row Name	PK	Data Type	Max. Length	Default	Explanation	
McID	O	NUMBER/NUMERIC	4		Unique integer that identifies the machine.	
ModuleNo	O	NUMBER/NUMERIC	4	0	This is the NXT logical module number. This value is set to 0 for all other machines.	
PcbID	O	VARCHAR2/VARCHAR	64		Unique character string that identifies the panel.	
PcbRecNo	O	NUMBER/NUMERIC	4	0	This is a unique integer used to identify the panel ID in the case where the same ID is entered twice.	
BlockNo	O	NUMBER/NUMERIC	4		PCB's block number.	
BlockID		VARCHAR2/VARCHAR	64	Null	Unique character string which identifies the panel block	

Update timing:

When a traceability data notification is sent from the machine during production (in the case of the NXT, when the current panel is finished at all modules), the applicable record is added.

## CameraConfig [For Backup]

V/(P)/S

The detailed settings for cameras currently existing in the SMT line are saved in the CameraConfig table using a machine ID as a key. This data does not exist at the machine.

Row Name	PK	Data Type	Max. Length	Default	Explanation	
McID	O	NUMBER/NUMERIC	4		This is a unique integer used to identify the panel camera. A value of 1 or higher is set.	
Lane	O	NUMBER/N	4	0	Used to indicate the lane.	

Row Name	PK	Data Type	Max. Length	Default	Explanation
		UMERIC			<p>A triple lane exists on the NXT.</p> <p>Lanes are not used on PCC and VME machines and therefore this is fixed as a single lane.</p> <p>This will also be a single lane in the case of a shuttle conveyor.</p> <p>0: Single conveyor (default)      1: Lane 1 of double lane      Lane 1 of a triple lane      2: Lane 2 of a double lane      Lane 2 of a triple lane      3: Lane 3 of a triple lane</p>
ConnectionMode		NUMBER/N UMERIC	4	0	<p>This specifies the connection mode between the host and the camera (FLP).</p> <p>0: Direct (Connect directly to camera)      1: Connect via the FLP</p>
ConnectionType		NUMBER/N UMERIC	4	0	<p>Specify the connection type between the host and the camera (FLP).H</p> <p>0: Ethernet 1: RS-232C</p>
CameraType		VARCHAR2/ VARCHAR	6	Null	<p>This specifies the camera type.</p> <p>QuadrusEZ: <b>Q-EZ</b>      BL600: <b>BL600</b>      TFIR3112: <b>TFIR</b>      SR-500: <b>SR500</b>      Other types: <b>OTHER</b></p> <p>When "OTHER" is specified, values are set for the following items: Header, Terminator, BaudRate, DataBit, Parity, StopBit.</p>
MaxNumPanel		NUMBER/N UMERIC	4	0	<p>This indicates the maximum number of panels that can be held in the management interval.</p>
CameraNo		VARCHAR2/ VARCHAR	64		<p>This is a unique integer used to identify the camera in the case where multiple cameras are connected via one connection. (COM port no. is used if the machine type is FLP.)</p> <p>Where two cameras are installed (Upper and Lower), the second camera is set at the SubCameraNo item below.</p>
CameraPosition		NUMBER/N UMERIC	4	0	<p>This indicates the default position when one camera is used.</p> <p>Refer to the "CameraPosition" item in the LineStatus table if changing the camera position during operation.</p> <p>This value is fixed at 1 if two cameras are installed.</p> <p>1: Side1 (Upper)      2: Side2 (Lower)</p>
SubCameraNo		VARCHAR2/ VARCHAR	64	Null	<p>This is a unique integer used to identify the lower camera where two cameras are set on the conveyor. (When the machine type is FLP, this value is used as the COM port No.)</p>

Row Name	PK	Data Type	Max. Length	Default	Explanation
					This value is set to Null if a sub camera does not exist.
SubCameraPosition		NUMBER/N UMERIC	4	-1	<p>This indicates the sub camera position. The lower camera is generally set as the sub camera.</p> <p>This setting must differ to the value set for CameraPosition.</p> <p>0: None 1: Side1 (Upper) 2: Side2 (Lower)</p>
RetryScanID		NUMBER/N UMERIC	4	0	<p>If the conveyor is controlled by the FLP, specify whether to perform a retry when a NOREAD or TIMEOUT error occurs when reading the panel ID.</p> <p>0: No retry 1~: Retry the specified no. of times</p>
CameraSettingType		NUMBER/N UMERIC	4	1	<p>Indicates the camera installation method when the traceability function is supported.</p> <p><b>1: Front camera method (Default)</b> 2: Camera insertion method</p>
Header		VARCHAR2/ VARCHAR	32	Null	<p>This item is set when the camera type is set to "OTHER".</p> <p>Specifies the header character string that is used when the scanned ID is sent from the camera to the FLP.</p> <p>The value is registered as a HEX character string for control code compatibility.</p> <p>A single character must be expressed as a 2 digit hexadecimal code.</p> <p>Ex.) A:41,TAB:0B,CR:0D,CR/LF:0D0A</p>
Terminator		VARCHAR2/ VARCHAR	32	Null	<p>This item is set when the camera type is set to "OTHER".</p> <p>Specifies the terminator character string that is used when the scanned ID is sent from the camera to the FLP.</p> <p>The value is registered as a HEX character string for control code compatibility.</p> <p>A single character must be expressed as a 2 digit hexadecimal code.</p> <p>Ex.) A:41,TAB:0B,CR:0D,CR/LF:0D0A</p>
BaudRate		NUMBER/N UMERIC	4	0	<p>Specifies the baud rate for the serial port that the camera is connected to. The actual baud rate is multiplied by 1/100 and recorded.</p> <p>Ex.) 9600→96</p>

Row Name	PK	Data Type	Max. Length	Default	Explanation
DataBit		NUMBER/N UMERIC	4	0	Specifies the data bits for the serial port that the camera is connected to.  7:7Bit  8:8Bit
Parity		NUMBER/N UMERIC	4	0	Specifies the parity for the serial port that the camera is connected to.  0: No parity  1:Even parity  2:Odd parity
StopBit		NUMBER/N UMERIC	4	0	Specifies the stop bit for the serial port that the camera is connected to. The actual stop bit value is multiplied by 10 and recorded.  10: 1 bit  15: 1.5 bit (Currently not supported)  20: 2 bit

## ConveyerInfo [For Backup]

## V/(P)/S

Detailed information for conveyors in the SMT lines are saved in the ConveyerInfo table using a machine ID as a key. This data exists only if the camera is supported using the FLP (if the CameraConfig table ConnectionMode is set to 1).

Row Name	PK	Data Type	Max. Length	Default	Explanation
McID	O	NUMBER/ NUMERIC	4		This is a unique integer used to identify the panel camera. A value of greater than 1 is set.
Lane	O	NUMBER/ NUMERIC	4	0	Used to indicate the lane.  A triple lane exists on the NXT.  Lanes are not used on PCC and VME machines and therefore this is fixed as a single lane.  This will also be a single lane in the case of a shuttle conveyor.  0: Single conveyor (default) 1: Lane 1 of a double lane Lane 1 of a triple lane 2: Lane 2 of a double lane Lane 2 of a triple lane 3: Lane 3 of a triple lane
ConveyerType		NUMBER/ NUMERIC	4	0	Used to indicate the conveyor type.  2 records exist in this table for a double conveyor.  0: Single conveyor 1: Double conveyor 2: Shuttle conveyor

Row Name	PK	Data Type	Max. Length	Default	Explanation
					3: Triple conveyor
FLPCType		NUMBER/ NUMERIC	4	0	This indicates the relay box type (SMEMA box) between the FLP and the scanner. This setting is used when the connection is via the FLP. Otherwise it is ignored. 0: Type A 1: Type B 2: Type C
ConvSpeed		NUMBER/ NUMERIC	4	0	This indicates the speed at which the conveyor transports the panel (mm/sec).
HoleLength		NUMBER/ NUMERIC	4	0	The scanner sensor switches ON and OFF when there are empty holes in the panel. In order to ignore this, specify the maximum width of the hole (mm).
IOCycleTime		NUMBER/ NUMERIC	4	0	This specifies the monitoring I/O polling timer (msec) when scanning IDs.
ScanTimeout		NUMBER/ NUMERIC	4	0	This specifies the timeout time (100 msec) when scanning IDs.
PassMode		NUMBER/ NUMERIC	4	0	This specifies whether to ignore errors that occur when scanning IDs. By setting this, verify errors are ignored and panel transfer is permitted. 0: Errors are not ignored (Follows the LineStatus NonstopCarry setting) 1: Errors are ignored (No verification) 2: Errors ignored (Only for cameras without sensor)

## DeviceTrace [For Backup]

P/S

Information about devices used by the machine during production is saved in the "DeviceTrace" table.

The times when device status changes occurred (feeder change, part change, splicing, etc.) are saved in this table as integer time codes.

These time codes link the DeviceTrace and PcbTrace tables, and enable the application to continuously acquire panel and device information.

Row Name	PK	Data Type	Max. Length	Default	Explanation
DeviceKey		NUMBER/N UMERIC	14	Compulsory	Unique key which links the produced panel to the device that was used. This key indicates (as an integer code) the time when a device status change occurred, and is used to save that device information (feeder changes, part changes, splicing, etc.) in the DeviceTrace table.
McID		NUMBER/N	4	Compulsory	Unique integer that identifies the

Row Name	PK	Data Type	Max. Length	Default	Explanation
		UMERIC			machine.
ModuleNo		NUMBER/N UMERIC	4	0	This is the NXT logical module number. This value is set to 0 for all other machines.
StageNo		NUMBER/N UMERIC	4	Null	Stage number. Set the value below for a new machine. Module no. x 100 + stage no.
GroupKey		NUMBER/N UMERIC	4	Null	Group number.
Class		NUMBER/N UMERIC	4	Null	Class 0:Tape 1:Tray
SlotNo		NUMBER/N UMERIC	4	Null	Slot number.
SubSlotNo		NUMBER/N UMERIC	4	Null	Sub-slot number.
Fidl		VARCHAR2/ VARCHAR	15	Null	Unique character string which identifies the feeder.
Did		VARCHAR2/ VARCHAR	64	Null	Unique character string which identifies the part
FeedCount		NUMBER/N UMERIC	9	Null	Number of feeder feeds.
RejectParts		NUMBER/N UMERIC	9	Null	Number of parts rejected by the machine.
NoPickupCount		NUMBER/N UMERIC	9	Null	Number of empty pickups. Failed to pick up parts, but the parts were not consumed.
PickupErrors		NUMBER/N UMERIC	9	Null	Number of failed pickups. Part pickup failed, and the parts were consumed.
VisionErrors		NUMBER/N UMERIC	9	Null	Number of parts rejected by vision processing errors.
DeviceComment		VARCHAR2/ VARCHAR	64	Null	Barcode for determining the validity of the parts.
Vendor		VARCHAR2/ VARCHAR	64	Null	Part vendor name
LotNo		VARCHAR2/ VARCHAR	64	Null	Part lot number
DateCode		VARCHAR2/ VARCHAR	32	Null	Part date code
OrgPartBarCode		VARCHAR2/ VARCHAR	64	Null	Original part barcode
LightingClass		VARCHAR2/ VARCHAR	40-25	Null	Lighting class
DModuleNo		NUMBER/N UMERIC	4	0	Not currently used
DIDDEPOSITCODE		VARCHAR2/ VARCHAR	64	NULL	Deposit code
TROUGHID		VARCHAR2	15	Null	Character string to identify troughs.

Update timing:

When a traceability data notification is sent from the machine during production (in the case of the NXT, when the current panel is finished at all modules), if any of the parts (DIDs) used in production have changed since the previous notification a new device key record is added.

When a traceability data notification is sent from the machine during production (in the case of the NXT, when the current panel is finished at all modules), if there has been no changes to the parts (DIDs) used in production since the previous notification the current records are updated.

## Dkey [For Backup]

## P/S

Part ID data and feeder ID data from this sequence is saved in the Dkey table.

Row Name	PK	Data Type	Max. Length	Default	Explanation
Dkey	O	NUMBER/NUMERIC	14	0	D-key
Fidl		VARCHAR2/VARCHAR	15	Null	Unique character string to identify the feeder.
Did		VARCHAR2/VARCHAR	64	Null	Unique character string to identify the part.
EndTime		DATE/DATETIME		Null	The production completion time for the newest panel of those panels using this Dkey.
TROUGHID		VARCHAR2	15	Null	Character string to identify troughs.

Update timing:

When a traceability data notification is sent from the machine during production (in the case of the NXT, when the current panel is finished at all modules), the applicable record is added.

When a traceability data notification is sent from the machine during production (in the case of the NXT, when the current panel is finished at all modules), the applicable record is updated.

## FlpConfigForProfiler

## V/(P)

The FLP (Front Line Controller) traceability-related environment settings are stored in the FlpConfigForProfiler table.

Row name	PK	Data Type	Max. Length	Default	Explanation
McID	O	NUMBER/NUMBERIC	4		This is a unique integer used to identify the machine.
ComPort	O	NUMBER/NUMBERIC	4		Sets the serial port No. for the FLP used to control the machine. 1~17
FlpName		VARCHAR2/VARCHAR	64	Null	Host name for the FLP used to control the machine.
Section		NUMBER/NUMBERIC	4	0	Indicates where the connected ID unit is located within the administration zone. 0: Start section

Row name	PK	Data Type	Max. Length	Default	Explanation
					1: End section 2: Machine interior
ReaderType		NUMBER/NUMERIC	4	0	Reader type mounted on ID Unit. 0:BL-600 1:
Purpose		NUMBER/NUMERIC	4	0	Indicates which ID unit type this serial port is connected to. 1-100:ID Unit of RS-232C
BaudRate		NUMBER/NUMERIC	4	0	Baud rate for this serial port. Multiplied by 1/100 and recorded.
DataBit		NUMBER/NUMERIC	4	0	Data bit for this serial port.
Parity		NUMBER/NUMERIC	4	0	Parity for this serial port.
StopBit		NUMBER/NUMERIC	4	0	Stop bit for this serial port. Multiplied by 10 and recorded

## LineNames [For Backup]

## V/(P)/S

The names of the production lines (keyed to the line IDs) which are being used in the factory are saved in the LineNames table.

Line positions are saved as sequential integers (1.2.3...) counting from the first line in the SMT line for the factory.

Row Name	PK	Data Type	Max. Length	Default	Explanation
LineID	0	NUMBER/NUMERIC	4		Unique integer which identifies the production line. A value of greater than 1 is set. The factory name is displayed when -1 is set.
LineName		VARCHAR2/VARCHAR	32	Null	Name which identifies the production line.
LineNumber		NUMBER/NUMERIC	4	Null	Indicates the position of the line within the factory. 0: The line has been deleted. It is therefore determined that no machines exist in this line. -1: Part storage shelf registration line. -2: Dry box registration line. -3: Dry oven registration line. -4: Kitting Stand registration line. Factories are registered as "-1" but since LineID is "-1", the setting is disabled.
LineMcName		VARCHAR2/VARCHAR	64	Null	This is the host name for the control software computer (KIT Server) used to control this line.
LineCCHostName		VARCHAR2/VARCHAR	64	Null	This is the host name for the CC control software computer (C/C plug-in) used to

Row Name	PK	Data Type	Max. Length	Default	Explanation
					control this line.
LineServerHostName		VARCHAR2/V ARCHAR	64	Null	This is the host name for the control software computer (PanelTracer) used to control this line.
LineClientHostName		VARCHAR2/V ARCHAR	64	Null	This is the host name for the client software computer (PanelTracer) used to control this line. (Computer that switches between PcbLot and PasteLot)
LineProdHostName		VARCHAR2/V ARCHAR	64	Null	This is the host name for the software computer used to control the production information (GEM etc.) for this line.
LineFlexaHostName		VARCHAR2/V ARCHAR	64	Null	This is the host name for the Flexa user server computer used to control this line.
ProfServerDBName		VARCHAR2/V ARCHAR	64	Null	This is the name of the database for the Profiler Server used to control this line.
DoBackUp		NUMBER/NU MERIC	4	Null	This flag is used to indicate whether to perform a back-up. 0= No 1= Yes
Capacity		NUMBER/NU MERIC	4	Null	This specifies the time period for which the ProfilerDB retains data. Units: Days
CleanUpCycle		NUMBER/NU MERIC	9	Null	This is the Profiler back-up cycle. (sec)
ProfRecipePath		VARCHAR2/VA RCHAR	255	Null	This is the folder name of where Profiler Web saves the recipe file. Stored by UNC bus.
LineProfServerHostName		VARCHAR2/V ARCHAR	64	Null	This is the host name for the line control software computer (Profiler Server) controlling this line.
XP2ProfilerServerHost Name		VARCHAR2/V ARCHAR	64	Null	Specifies the host name or IP address for Fuji Profiler Central Server, which is used to collect traceability data for all XP Type 2/3 (XP142(3), XP242(3)) and XPF machines in the line.
OperatorTraceMode		NUMBER/NU MERIC	4	1	Specifies whether the operator trace function is ON or OFF. 0: OFF (Disabled) 1: ON (Enabled) (Default)
FeederTypeCheck		NUMBER/NU MERIC	4	0	Specifies whether to perform a feeder type check. 0: No check (Default) 1: Check
CentralServerHostNa me		VARCHAR2/V ARCHAR	64	Null	Specifies the IP address or host name for Fuji Central Server, which is used to perform verification for all XPF machines in the line.
ProfDBHostName		VARCHAR2/V ARCHAR	256	Null	This is the host name (instance name) of the connected Profiler database managing this line. <u>Not required if the database is Oracle.</u>
PartsNavi		NUMBER/NU	4	0	Specifies whether the parts navigation

Row Name	PK	Data Type	Max. Length	Default	Explanation
		MERIC			function is ON or OFF. 0: OFF (Disabled) 1: ON (Enabled)
ProdNaviHostName		VARCHAR2/V ARCHAR	64	Null	Specifies the host name or IP address of the Production Navigator Server computer that manages this line.
VerifierDBName		VARCHAR2/V ARCHAR	64	Null	Name of Verifier database that manages this line.

## LineDesc [For Backup]

V/(P)/S

The line configuration information for each machine is saved in the "LineDesc" table.

Machine names are saved under the machine IDs defined in the MachineNames table.

Line names are saved under the line IDs defined in the LineNames table. Machine positions are saved as sequential integers (1.2.3...) counting from the first machine in the line.

Row Name	PK	Data Type	Max. Length	Default	Explanation
McID	O	NUMBER/ NUMERIC	4		Unique integer which identifies the machine. A value of greater than 1 is set.
LineID		NUMBER/ NUMERIC	4	Compulsory	Unique integer which identifies the SMT line. A value of greater than 1 is set. The factory name is displayed when -1 is set.
Position		NUMBER/ NUMERIC	4	Null	Position of machine in the SMT line.
USENEXIM		NUMBER/ NUMERIC	1	0	Determines the line information used for the new host system.

## LineStatus

V/(P)

This stores the current line status.

Row Name	PK	Data Type	Max. Length	Default	Explanation
LineID	O	NUMBER/ NUMERIC	4		Unique integer used to indicate the SMT line. A value of greater than 1 is set.
Lane	O	NUMBER/ NUMERIC	4	0	Used to indicate the line. A triple lane exists on the NXT. Lanes are not used on PCC and VME machines and therefore this is fixed as a single lane. This will also be a single lane in the case of a shuttle conveyor. 0: Single conveyor (default) 1: Lane 1 of a double lane Lane 1 of a triple lane 2: Lane 2 of a double lane

Row Name	PK	Data Type	Max. Length	Default	Explanation
					Lane 2 of a triple lane 3: Lane 3 of a triple lane
NumBlocks		NUMBER/ NUMERIC	4	Null	Indicates the number of panel boards for the job currently being produced.
ScanIDType		NUMBER/ NUMERIC	4	0	Specifies whether the ID is scanned as the Panel ID or Board ID when scanning the IDs on the panel using the camera.  0= PanelID 1= BoardID  Default: 0 (PanelID)
AutoMakeID		NUMBER/ NUMERIC	4	0	Specifies whether to automatically generate the ID from the start for the scanned ID on the panel.  0= OFF 1= ON  This function operates as follows when performing automatic generation.  When the ScanIDType is 0 (PanelID): The BoardID is generated automatically When the ScanIDType is 1 (BoardID): The PanelID is generated automatically  Default: 0 (OFF)
AllocateBlockNo		NUMBER/ NUMERIC	4	1	Specifies the PanelID allocated to the BlockNo when automatically generating the BoardID when the ScanIDType is 0 (PanelID).  When set to 0, the BoardID is generated automatically using an order no.  When a valid BlockNo. Is specified, the BoardID and PanelID for that board are the same.  Default: 1
BlockLinkKey		NUMBER/ NUMERIC	4	-1	When the ID on the panel is read as a BoardID, a key is used to specify the read order for the BlockNo and ID.  Default: -1 (No information)
PanelBarcSide		NUMBER/ NUMERIC	4	0	Indicates the panel barcode attachment surface. 0: Top 1: Bottom
CameraPosition		NUMBER/ NUMERIC	4	-1	Indicates the camera setting status 1: Side 1 (attached to the conveyor top surface) 2: Side 2 (attached to the conveyor top surface) 3: Both (attached to both conveyor surfaces)

Row Name	PK	Data Type	Max. Length	Default	Explanation
NonstopCarry		NUMBER/ NUMERIC	4	3	<p>Specifies whether to transfer the panel to the next machine if a panel ID error occurs in the case where the conveyor supports FLP control.</p> <p>1: Transferred even if an error occurs for the ID</p> <p>2: Not transferred (Permitted after resetting)</p> <p>3: Not transferred (verification performed again after resetting)</p>
Part2DCodeCarry		NUMBER/ NUMERIC	4	3	<p>Specifies whether the machine conveys the panel when a 2D code read error occurs.</p> <p>1: Convey even when ID error occurs.</p> <p>2: Do not convey (allow after reset)</p> <p>3: Do not convey (verify again after reset)</p>
Part2DCodeCarry		NUMBER/ NUMERIC	4	3	Not currently used.
FlpMultiCameraMode		NUMBER/ NUMERIC	4	0	Not currently used.
NumBlocks2		NUMBER/ NUMERIC	4	NULL	Not currently used.
AutoMakeID2		NUMBER/ NUMERIC	4	0	Not currently used.
AllocateBlockNo2		NUMBER/ NUMERIC	4	0	Not currently used.
StartPosition		NUMBER/ NUMERIC	4	0	Not currently used.
Length		NUMBER/ NUMERIC	4	0	Not currently used.
Section		NUMBER/ NUMERIC	4	0	Not currently used.
SkipCharacter		NUMBER/ NUMERIC	4	0	Not currently used.
SkipCharacterOther		VARCHAR 2/VARCHA R	64	NULL	Not currently used.
ManualHandyScanMo de		NUMBER/ NUMERIC	4	0	Not currently used.
UsePanelID		NUMBER/ NUMERIC	4	0	Not currently used.

## MachineNames [For Backup]

V/(P)/S

The names and types of machines (keyed to the machine IDs) in the production line are saved in the MachineNames table. Cameras for panels also have this ID.

Row Name	PK	Data Type	Max. Length	Default	Explanation
McID	O	NUMBER/NUMERIC	4		Unique integer which identifies the machine and panel camera, box name, and Kitting Stand. A value greater than 1 is set.
MachineName		VARCHAR 2/VARCHAR	64	Null	<p>Name that identifies the machine and panel camera, box name, and Kitting Stand. Also known as the machine nickname.</p> <p>When using an Ethernet type panel camera, this is the IP Address of the camera, or the FLP address when using an FLP.</p> <p>When using an RS-232C panel camera, this is the COM Port no. for connection to the camera.</p>
MachineType		VARCHAR 2/VARCHAR	6	Null	<p>Machine type.</p> <p>CP642, CP642M, CP643, CP643M, CP732, CP733, CP742, CP742M, CP743, CP743M, FCP4, FCP43, FCP6, FCP6M, FIP1, FIP2, FIP3, NP133, NP2, QP132, QP242, QP341, XP141, XP241, XP341, NXT, AIM, XPF, AIMEX</p> <p><b>CAMERA</b> when using a panel camera.</p> <p><b>SHELF</b> when using part storage shelves.</p> <p><b>DRYBOX</b> when using a dry box.</p> <p><b>DRYOVN</b> when using a dry oven.</p> <p><b>KITSTD</b> when using a Kitting Stand.</p> <p><b>PALLET</b> when using a feeder pallet</p> <p><b>TOWER</b> when an automatic warehouse</p> <p>The corresponding code always exists in MaterialTowerConfig when it is "TOWER".</p>
RecipeFileTop		VARCHAR 2/VARCHAR	255	Null	This is the name of the FujiCam recipe file that Nexim Verifier refers to when acquiring recipe data for the upper side of the panel
RecipeFileBottom		VARCHAR 2/VARCHAR	255	Null	This is the name of the FujiCam recipe file that Nexim Verifier refers to when acquiring recipe data for the lower side of the panel.
PartsOutWarningMode		NUMBER/NUMERIC	4	0	<p>Parts out warning type</p> <p>0: Reports remaining possible production time.</p> <p>1: Reports remaining number of panels that can be produced.</p>
RemainTime		NUMBER/NUMERIC	9	0	<p>This is the current parts out warning reference time (in seconds) set at the machine.</p> <p>The units are as follows.</p> <p>If PartsOutWarningMode=0 then (sec)</p> <p>If PartsOutWarningMode=1 then (panel qty.)</p>

Row Name	PK	Data Type	Max. Length	Default	Explanation
HostName		VARCHAR 2/VARCHA R	64	Null	Name of host controlling (NTCC) this machine.
BoardFlow		VARCHAR 2/VARCHA R	32	Null	Panel Conveyance Left->Right Right->Left
RecoveryUP		NUMBER/ NUMERIC	4	0	Machine recovery limit
PartIDMode		NUMBER/ NUMERIC	4	0	Parts Verification Mode. 0:Part Number 1:Part Barcode
TwoPanelFlg		NUMBER/ NUMERIC	4	Null	Double panel production flag This flag is set when performing double panel production (CP) 0: OFF/1:ON
KittingHostName		VARCHAR 2/VARCHA R	64	Null	When the machine type is a reel set stand, this is the host name for the Kitting Station used to control that reel set stand.
KITSTDHostName		VARCHAR 2/VARCHA R	64	Null	When the machine type is a Kitting Stand, this item indicates the host name of the control software PC which manages that Kitting Stand. In all other cases, this item is left blank.
KITSTDComPort		NUMBER/ NUMERIC	4	Null	When the machine type is a Kitting Stand, this item indicates the COM port No. for referencing by the Kitting Stand communication control service. 1: COM Port 1 2: COM Port 2
SimpleVerifyMode		NUMBER/ NUMERIC	4	0	KitManager START mode. 0:OFF 1:ON
TraceLevel		NUMBER/ NUMERIC	4	0	This sets the production level for traceability. -1: Reference the job settings. (NXT, AIM, AIMEX, XPF) 0: Do not generate Traceability data. 1: Simple output (DeviceTrace only) 2: Simple + nozzle output 3: Standard output (reference designator) 4: Full output
FlexibleProductOptions		NUMBER/ NUMERIC	4	1	This sets the machine additional production function. 0: Normal 1: Dynamic Alternate Feeder ON (Searches for removable feeders.) 2: Dynamic Alternate Feeder OFF (No search performed for removable feeders.) 3: Dynamic Alternate Feeder ON (searches

Row Name	PK	Data Type	Max. Length	Default	Explanation
					for removable feeders) and splicing. 4: Dynamic Alternate Feeder ON (No search performed for removable feeders) and splicing.
TrayVerification		NUMBER/ NUMERIC	4	0	Sets whether the modules on this machine use tray verification. 0: Tray Verify function not used. 1: Use Tray Verify function without DID. 2: Use Tray Verify function with position check. 3: Use Tray Verify function with DID.
FeederUpDateOption		NUMBER/ NUMERIC	4	0	Sets whether to update the feeders on this machine. 0: OFF (Not used) 1: ON (Used)
CameraOption		NUMBER/ NUMERIC	4	0	Specifies whether panel ID reading is to be carried out at the machine. 0: OFF [Do not perform reading or FLP] 1: ON [LMark or No ID profiler] NXT/AIM/AIMEX/XPF/CP-7/CP-8/QP-3 only
ProductionTimeForLine		NUMBER/ NUMERIC	4	0	Sets the units for production cycle time. 0: Calculates thru-put by machine. 1: Calculates approximate line thru-put.
SplicingWarningSetting		NUMBER/ NUMERIC	4	0	Sets whether splicing warning by tape length is enabled or not. (Supported for NXT/ AIM/AIMEX only) 0: Warning function is off 1: Warning function is on 2: Warning function + splicing limit (not yet supported)
DynamicAllocationMode		NUMBER/ NUMERIC	4	0	Specifies whether to use the Dynamic Allocation Function. 0: Not used 1: Used
ConveyorUnitCount		NUMBER/ NUMERIC	2	0	Specifies the number of conveyor units that exist between the panel ID reader and the first placement module. This value is set to 0 for all machines other than NXT/AIM/AIMEX. 0: No conveyor units (Default) 1~10: Conveyor unit quantity
GROUPDEVICE		NUMBER/ NUMERIC	2	0	Not currently used.
PartsNaviTime		NUMBER/ NUMERIC	9	0	Specifies the reference time (unit: sec) for checkout navigation. When this item is set to 0, checkout navigation times are not monitored.
SPLICENGCOND		NUMBER/ NUMERIC	2	0	Not currently used.

Row Name	PK	Data Type	Max. Length	Default	Explanation
AIMEXVersion		NUMBER/ NUMERIC	4	0 1	New or old AIMEX version (new is V2.00 or later) 0: Old version 1: New version
JobSideOnly		NUMBER/ NUMERIC	4	0	Sets whether free allocation/dynamic allocation straddling both sides of the XPF is enabled or not.
UseQualityControl		NUMBER/ NUMERIC	4	0	Not currently used
CheckInMachineName		VARCHAR 2/VARCHA R	64	Null	Not currently used.
CheckInSide		NUMBER/ NUMERIC	4	0	Not currently used.
CheckInModule		NUMBER/ NUMERIC	4	0	Not currently used.
FdOpeJobSpec		NUMBER/ NUMERIC	4	0	Feeder operation job specification Setting list / range 0: Use feeders set on the machine 1: According to job settings
ELFName		VARCHAR 2/VARCHA R	64	Null	Not currently used
IRCName		VARCHAR 2/VARCHA R	64	Null	Not currently used
ELFSharedFolder		VARCHAR 2/VARCHA R	255	Null	Not currently used
UseGem		NUMBER/ NUMERIC	4	0	Specifies whether to use SECS/GEM for communication with the user host. 0: Do not use 1: Use Supported machines: NXT/AIMEX/NXT-H
MODELNAME		VARCHAR 2/VARCHA R	64	Null	Machine model name
PRODUCTIONMODE		NUMBER/ NUMERIC	1	0	Production mode 0: Normal 1: Multi
SHUTTLECONVEYORMODE		NUMBER/ NUMERIC	1	0	Specifies the conveyance method for the shuttle conveyor for the next stage after NXTP. 0: None (default setting) 1: Straight 2: Cross 3: Split 4: Converging 5: Variable split

Row Name	PK	Data Type	Max. Length	Default	Explanation
					6: Variable converging (Variable Converging)
CONNECTIONNUMBER		NUMBER/ NUMERIC	1	0	Specifies the connection number for the NXTP from 1 to 4.
CONNECTIONNAME		VARCHAR 2/VARCAH R	64	Null	Specifies the name used to recognize what kind of machine the NXTP printer or other machine is connected to.  Note: It is possible to be blank, and this is treated the same connected machine.
SHELFINDEX		NUMBER/ NUMERIC	4	0	Indicates how shelves are arranged in the same area by a number.

## ModuleConfig [For Backup]

## V/(P)/S

The base module configuration for a new machine is saved in the ModuleConfig table.

Row Name	PK	Data Type	Max. Length	Default	Explanation
McID	O	NUMBER/ NUMERIC	4		This is a unique integer used to identify the machine.
BaseName	O	VARCHAR 2/VARCAH R	64		Base name
PhysicalModuleNo	O	NUMBER/ NUMERIC	4		Physical number of the module
LogicalModuleNo		NUMBER/ NUMERIC	4		Logical number of the module
ModuleType		NUMBER/ NUMERIC	4	0	Module type
ModuleID		VARCHAR 2/VARCAH R	32	Null	This is a unique character string used to identify the module.
UnitOpSide1		NUMBER/ NUMERIC	4	0	Specifies whether to perform verification on modules.  0: Verify ON 1: Verify OFF 2 ~: Feature (Not supported)
UnitOpSide2		NUMBER/ NUMERIC	4	0	Specifies whether to perform verification on modules.  0: Verify ON 1: Verify OFF 2 ~: Feature (Not supported)
TrayVerification		NUMBER/ NUMERIC	4	0	Specifies whether the modules on this machine use tray unit-L verification.  0: The tray unit-L verify function is not used. 1: Use the tray unit-L verify function without DID. 2: Use the tray unit-L verify function with position check.

Row Name	PK	Data Type	Max. Length	Default	Explanation
					3: Use the tray unit-L verify function with DID.
TrayMVerification		NUMBER/ NUMERIC	4	0	Specifies whether the modules on this machine use Tray unit-M verification. 0: The tray unit-M verify function is not used. 1: Use the tray unit-M verify function without DID. 2: This setting is not used. 3: Use the tray unit-M verify function with DID.
TrayFeederVerification		NUMBER/ NUMERIC	4	0	Specifies whether the modules on this machine use tray feeder verification. 0: The tray feeder verify function is not used. 1: Use tray feeder verify function without DID. 2: This setting is not used. 3: Use tray feeder verify function with DID.
TrayLTVerification		NUMBER/ NUMERIC	4	0	Specifies whether the modules on this machine use tray unit-LT verification. 0: The tray unit-LT verify function is not used. 1: Use tray unit-LT verify function without DID. 2: Use tray unit-LT verify function with position check. 3: Use tray unit-LT verify function with DID.
MWUVerification		NUMBER/ NUMERIC	4	0	Not currently used.
TrayLTCVerification		NUMBER/ NUMERIC	4	0	Specifies whether the modules on this machine use tray unit-LTC verification. 0: The tray unit-LTC verify function is not used. 1: Use tray unit-LTC verify function without DID. 2: Use tray unit-LTC verify function with position check. 3: Use tray unit-LTC verify function with DID.
TrayFeederSVerification		NUMBER/ NUMERIC	4	0	Not currently used.
ModuleNo		NUMBER/ NUMERIC	4	Null	Not currently used.

## MaskSetting [For Backup]

P/S

Mask setting information is saved in the MaskSetting table.

Row Name	PK	Data Type	Max. Length	Default	Explanation	
MSKey	O	NUMBER/N UMERIC	16	0	Mask setting key Link key for PrintInfo table.	
McID		NUMBER/N UMERIC	4	0	An integer to uniquely identify a machine.	
ModuleNo		NUMBER/N UMERIC	4	0	The logical module number for the NXT. For other machines, the number is fixed as "0".	
XOffset		NUMBER/N UMERIC	9	NULL	Offset amount in the X-direction Units: mm	
YOffset		NUMBER/N UMERIC	9	NULL	Offset amount in the Y-direction Units: mm	
QOffset		NUMBER/N UMERIC	9	NULL	Offset amount in the Q-direction Units: udeg	
NormalClnIntVal		NUMBER/N UMERIC	6	NULL	Setting for how many panels for when to perform normal cleaning. Units: Panels 1st set	
NormalClnMode		VARCHAR2 /VARCHAR	16	NULL	Settings for the normal cleaning. D: Dry, W: Wet, V: Vacuum, 1st set Example: When doing dry and vacuum, the entry is DV	
NormalClnSpeed		NUMBER/N UMERIC	6	NULL	The cleaning speed for normal cleaning. Units: mm/s 1st set	
NormalClnTwIPitch		NUMBER/N UMERIC	6	NULL	The cleaning towel index pitch for normal cleaning. Units: mm 1st set	
NormalClnIntVal2		NUMBER/N UMERIC	6	NULL	Setting for how many panels for when to perform normal cleaning. Units: Panels 2nd set	
NormalClnMode2		VARCHAR2 /VARCHAR	16	NULL	Settings for the normal cleaning. D: Dry, W: Wet, V: Vacuum, 2nd set	
NormalClnSpeed2		NUMBER/N UMERIC	6	NULL	The cleaning speed for normal cleaning. Units: mm/s 2nd set	
NormalClnTwIPitch2		NUMBER/N UMERIC	6	NULL	The cleaning towel index pitch for normal cleaning. Units: mm 2nd set	
NormalClnIntVal3		NUMBER/N UMERIC	6	NULL	Setting for how many panels for when to perform normal cleaning. Units: Panels 3rd set	
NormalClnMode3		VARCHAR2 /VARCHAR	16	NULL	Settings for the normal cleaning. D: Dry, W: Wet, V: Vacuum, 3rd set	
NormalClnSpeed3		NUMBER/N UMERIC	6	NULL	The cleaning speed for normal cleaning. Units: mm/s 3rd set	
NormalClnTwIPitch3		NUMBER/N UMERIC	6	NULL	The cleaning towel index pitch for normal cleaning. Units: mm 3rd set	
NormalClnIntVal4		NUMBER/N UMERIC	6	NULL	Setting for how many panels for when to perform normal cleaning. Units: Panels 4th set	
NormalClnMode4		VARCHAR2 /VARCHAR	16	NULL	Settings for the normal cleaning.	

Row Name	PK	Data Type	Max. Length	Default	Explanation	
					D: Dry, W: Wet, V: Vacuum, 4th set	
NormalClnSpeed4		NUMBER/N UMERIC	6	NULL	The cleaning speed for normal cleaning. Units: mm/s 4th set	
NormalClnTwIPitch4		NUMBER/N UMERIC	6	NULL	The cleaning towel index pitch for normal cleaning. Units: mm 4th set	
SpecialClnIntVal		NUMBER/N UMERIC	6	NULL	Setting for how many panels for when to perform special cleaning. Units: Panels 1st set	
SpecialClnMode		VARCHAR2 /VARCHAR	16	NULL	Settings for the special cleaning. D: Dry, W: Wet, V: Vacuum, 1st set Example: When doing wet and vacuum, the entry is WV	
SpeciaClnSpeed		NUMBER/N UMERIC	6	NULL	The cleaning speed for special cleaning. Units: mm/s 1st set	
SpeciaClnTwIPitch		NUMBER/N UMERIC	6	NULL	The cleaning towel index pitch for normal cleaning. Units: mm 1st set	
SpecialClnIntVal2		NUMBER/N UMERIC	6	NULL	Setting for how many panels for when to perform special cleaning. Units: Panels 2nd set	
SpecialClnMode2		VARCHAR2 /VARCHAR	16	NULL	Settings for the special cleaning. D: Dry, W: Wet, V: Vacuum, 2nd set	
SpeciaClnSpeed2		NUMBER/N UMERIC	6	NULL	The cleaning speed for special cleaning. Units: mm/s 2nd set	
SpeciaClnTwIPitch2		NUMBER/N UMERIC	6	NULL	The cleaning towel index pitch for normal cleaning. Units: mm 2nd set	
SpecialClnIntVal3		NUMBER/N UMERIC	6	NULL	Setting for how many panels for when to perform special cleaning. Units: Panels 3rd set	
SpecialClnMode3		VARCHAR2 /VARCHAR	16	NULL	Settings for the special cleaning. D: Dry, W: Wet, V: Vacuum, 3rd set	
SpeciaClnSpeed3		NUMBER/N UMERIC	6	NULL	The cleaning speed for special cleaning. Units: mm/s 3rd set	
SpeciaClnTwIPitch3		NUMBER/N UMERIC	6	NULL	The cleaning towel index pitch for normal cleaning. Units: mm 3rd set	
SpecialClnIntVal4		NUMBER/N UMERIC	6	NULL	Setting for how many panels for when to perform special cleaning. Units: Panels 4th set	
SpecialClnMode4		VARCHAR2 /VARCHAR	16	NULL	Settings for the special cleaning. D: Dry, W: Wet, V: Vacuum, 4th set	
SpeciaClnSpeed4		NUMBER/N UMERIC	6	NULL	The cleaning speed for special cleaning. Units: mm/s 4th set	
SpeciaClnTwIPitch4		NUMBER/N UMERIC	6	NULL	The cleaning towel index pitch for normal cleaning. Units: mm 4th set	
EndTime		DATE/DAT	-		Production completed time for the	

Row Name	PK	Data Type	Max. Length	Default	Explanation	
		ETIME			newest panel produced on which the current MSKey was used.	

## Mkey [For Backup]

P/S

The Mkey table saves mask ID key information.

Row Name	PK	Data Type	Max. Length	Default	Explanation	
MKey	O	NUMBER/NUMERIC	16	0	Mask ID key Link key for PrintInfo table.	
MSKID		VARCHAR2/VARCHAR	128	NULL	Mask ID	
MSKNAM		VARCHAR2/VARCHAR	64	NULL	Mask name	
MSKVND		VARCHAR2/VARCHAR	64	NULL	Mask vendor	
MSKLLOT		VARCHAR2/VARCHAR	64	NULL	Mask lot number	
MSKDTE		VARCHAR2/VARCHAR	64	NULL	Mask date code	
EndTime		DATE/DATETIME	-		Production completed time for the newest panel produced on which the current Mkey was used.	

## Nkey [For Backup]

P/S

Nozzle ID from this sequence is saved in the Nkey table.

Row Name	PK	Data Type	Max. Length	Default	Explanation
Nkey	O	NUMBER/NUMERIC	14	0	N-key
Nid		VARCHAR2/VARCHAR	31	Null	Unique character string to identify the nozzle.
EndTime		DATE/DATETIME		Null	The production completion time for the newest panel of those panels using this Nkey.

## NozzleTrace [For Backup]

P/S

Information about nozzles used by the machine during production is saved at the "NozzleTrace" table.

The times when nozzle changes occurred are saved at this table as integer codes.

The NozzleTrace and PcbTrace tables are linked by this time code, enabling the application to obtain PCB and nozzle connection information.

In other words, it is possible to identify (trace) which nozzle was used to produce which PCB.

Row Name	PK	Data Type	Max. Length	Default	Explanation
NozzleKey		NUMBER/N UMERIC	14	Compulsory	Unique key which links a produced panel to the nozzles that were used.  This key indicates (as an integer code) the time when a nozzle change occurred, and is used to save that nozzle information in the NozzleTrace table.
McID		NUMBER/N UMERIC	4	Compulsory	Unique integer that identifies the machine.
ModuleNo		NUMBER/N UMERIC	4	0	This is the NXT logical module number. This value is set to 0 for all other machines.
HeadNo		VARCHAR2 /VARCHAR	20	Null	Head number.
HolderNo		VARCHAR2 /VARCHAR	20	Null	Holder number.
NozzleNo		VARCHAR2 /VARCHAR	20	Null	Nozzle number.
Nid		VARCHAR2 /VARCHAR	31	Null	Unique character string that identifies the nozzle.
PickupCount		NUMBER/N UMERIC	9	Null	Number of pickups performed.
RejectParts		NUMBER/N UMERIC	9	Null	Number of parts rejected by machine.
NoPickupCount		NUMBER/N UMERIC	9	Null	Number of empty pickups.  Failed to pick up parts, but the parts were not consumed.
PickupErrors		NUMBER/N UMERIC	9	Null	Number of failed pickups. Part pickup failed, and the parts were consumed.
VisionErrors		NUMBER/N UMERIC	9	Null	Number of parts rejected by vision processing errors.
DModuleNo		NUMBER/N UMERIC	4	0	Display module number  Stores the display module number for the AIMEX.  For NXT, AIM, sFAB and AIMEX old versions, the same value as ModuleNo is set.  0 to 32  For other values, "0" is used.

## PanelIDReport

V/(P)

Panel position information is saved in the PanelIDReport table.

Row name	PK	Data type	Max Length	Default	Explanation
LineID	O	NUMBER/NUMERIC	4	0	An integer to uniquely identify an SMT line. The value starts from 1.
McID	O	NUMBER/NUMERIC	4	0	An integer to uniquely identify a machine.

Row name	PK	Data type	Max Length	Default	Explanation
ModuleNo	O	NUMBER/NUMERIC	4	0	Logical module number
Lane	O	NUMBER/NUMERIC	4	0	<p>Indicates the lane.</p> <p>A triple lane exists for lane for NXT machines. This is fixed as a single lane for PCC and VME machines because they do not have lanes.</p> <p>In addition, a single lane is used for shuttle conveyors.</p> <p>0: Single lane (default)            1: Lane 1 for a double lane            Lane 1 for a triple lane            2: Lane 2 for a double lane            Lane 2 for a triple lane            3: Lane 3 for a triple lane</p>
IDType		VARCHAR2/VARCHAR	64	1	<p>The code type</p> <ol style="list-style-type: none"> <li>1. Panel ID</li> <li>2. Part ID</li> <li>3. Board ID</li> </ol>
ID		VARCHAR2/VARCHAR	64	Null	Barcode (panel ID, part ID, board ID)
BlockNo		VARCHAR2/VARCHAR	4	0	The panel board number.

## PanelPosition [For Backup]

P/S

The PanelPosition table saves panel sequences reading result information.

Row Name	PK	Data Type	Max. Length	Default	Explanation
McID	O	NUMBER/NUMERIC	4	0	An integer to uniquely identify a machine.
ModuleNo	O	NUMBER/NUMERIC	4	0	The logical module number for the NXT. For other machines, the number is fixed as "0".
PcbID	O	VARCHAR2/VARCHAR	64		Unique character string that is used to identify the panel.
PcbRecNo	O	NUMBER/NUMERIC	9	0	Integer used to make the panel ID unique when multiples of the same panel ID exist.
SeqNo	O	NUMBER/NUMERIC	56	0	Fiducial mark sequence number
XOffset		NUMBER/NUMERIC	9	NULL	X-direction offset amount when reading fiducial mark sequence. Units: nm
YOffset		NUMBER/NUMERIC	9	NULL	Y-direction offset amount when reading fiducial mark sequence. Units: nm

## PanelGroupTrace [For Backup]

P/S

Production information is stored in the PanelGroupTrace table in panel group units (production no. and lot no.) administered by the user.

The panel group ID (PanelGroupID) is used as a key. The actual production results (when production is started, finished, etc.) for that panel group are stored.

Row Name	PK	Data Type	Max. Length	Default	Explanation
LineID	O	NUMBER/NUMERIC	4		This is an integer used to uniquely identify the SMT line. A value from 1 is set.
Lane	O	NUMBER/NUMERIC	4	0	Indicates the lane. Shuttle conveyors are treated as single lanes. 0: Single lane (Default) 1: Double lane Lane1 Triple lane Lane1 2: Double lane Lane2 Triple lane Lane2 3: Triple lane Lane3
PanelGroupID	O	VARCHAR2/VARCHAR	64	Null	Indicates the panel group ID managed by the user. This information is set using a unique value in the system.
StartTime	O	DATE/DATETIME		Null	Indicates the production commencement date for this panel group.
EndTime		DATE/DATETIME		Null	Indicates the production completion date for this panel group. This is set to Null if production of this panel group is not complete.
GroupNo		NUMBER/NUMERIC	9	0	This is a key used to link to the PCBTrace. If set to 0, the link with the PCBTrace is established based on the time from the StartTime to the EndTime. If it is set to 1 or higher, the link is established with the PCBTrace and its key. Setting range: 0 to 999999999
PanelGroupName		VARCHAR2/VARCHAR	64	Null	Indicates the panel group name. The user can freely specify supplemental information related to the panel group ID.
ProductNo		VARCHAR2/VARCHAR	64	Null	Indicates the product data. The user can freely specify supplemental information related to the panel group ID.
OperatorName		VARCHAR2/VARCHAR	64	Null	Records the name of the operator who registered the panel group ID.

## PCBLINK

P/S

When reading panel IDs at a module within the line, data is saved to associate a relationship between the temporarily assigned panel ID and the actual panel.

Row Name	PK	Data Type	Max. Length	Default	Explanation
PcbID	O	VARCHAR2/VARCHAR	64	Null	Temporary panel ID
PcbRecNo	O	NUMBER/NUMERIC	9	0	A unique integer number for when panel ID duplications occurs.
RPcbID		VARCHAR2/VARCHAR	64	Null	Read panel ID

## PcbTrace [For Backup]

P/S

Information about panels produced by machines is saved in the "PcbTrace" table.

Keyed to the panel ID (PCB ID), this information shows the panel's production record (recipe name, PCB side, production start date/time, production end date/time).

Row Name	PK	Data Type	Max. Length	Default	Explanation
McID	O	NUMBER/NUMBERIC	4		Unique integer that identifies the machine.
ModuleNo	O	NUMBER/NUMBERIC	4	0	This is the NXT logical module number. This value is set to 0 for all other machines.
PcbID	O	VARCHAR2/VARCHAR	64		Unique character string that identifies the panel.
PcbRecNo	O	NUMBER/NUMBERIC	9	0	This is a unique integer used to identify the panel ID in the case where the same ID is entered twice.
DeviceKey		NUMBER/NUMBERIC	14	Null	Unique key which links a produced panel to the device that was used. This key indicates (as an integer code) the time when a device status change occurred, and is used to save that device information (feeder changes, part changes, splicing, etc.) in the DeviceTrace table.
NozzleKey		NUMBER/NUMBERIC	14	Null	Unique key which links a produced panel to the nozzles that were used. This key indicates (as an integer code) the time when a nozzle change occurred, and is used to save this nozzle information in the NozzleTrace table.
RecipeName		VARCHAR2/VARCHAR	64	Null	Recipe name.
RecipeDate		DATE/DATETIME		Null	Date when the recipe file was acquired from the machine or host.
Side		NUMBER/NUMBERIC	4	Null	Panel side. 0:Top 1:Bottom
StartTime		DATE/DATETIME		Null	Start time for the panel.
EndTime		DATE/DATETIME		Null	End time for the panel.
NumComp		NUMBER/NUMBERIC	9	Null	Number of parts placed on the panel.
NumBlocks		NUMBER/NUMBER	4	Null	Number of panel blocks produced.

Row Name	PK	Data Type	Max. Length	Default	Explanation
		MERIC			
NumErrors		NUMBER/NUMERIC	9	Null	Number of placing errors that occurred at the panel during production. This is the total count that includes the number of parts rejected by the machine, the number of empty pickups (pickup failed but parts not consumed), the number of failed pickups (parts consumed), and the number of parts rejected by vision processing.
OperatorName		VARCHAR2/VARCHAR	64		Name of operator who was logged in at the machine when the panel was produced.
Lane		NUMBER/NUMERIC	4	0	<p>Used to indicate the lane.</p> <p>A triple lane exists on the NXT.</p> <p>Lanes are not used on PCC and VME machines and therefore this is fixed as a single lane.</p> <p>This will also be a single lane in the case of a shuttle conveyor.</p> <p>0: Single conveyor (default)</p> <p>1: Lane 1 of double lane Lane 1 of triple lane</p> <p>2: Lane 2 of double lane Lane 2 of triple lane</p> <p>3: Lane 3 of triple lane</p>
Status		NUMBER/NUMERIC	4	0	<p>This indicates the status when panel production is being performed.</p> <p>0: The panel is conveyed through the machine and produced normally.</p> <p>1: A panel is added midway through production.</p> <p>2: A panel is removed during production.</p>
GroupNo		NUMBER/NUMERIC	9	0	<p>This is a key used to link to the PanelGroupTrace.</p> <p>If set to 0, the link with the PanelGroupTrace is established based on the time from the PanelGroupTrace.StartTime to the PanelGroupTrace.EndTime, and if set to a value of 1 or higher, the link is established with the PanelGroupTrace and its key.</p>
ModelName		VARCHAR2/VARCHAR	64	NULL	Not currently used.
InspectResult		NUMBER/NUMERIC	4	-1	Not currently used.

Update timing:

When a traceability data notification is sent from the machine during production (in the case of the NXT, when the current panel is finished at all modules), the applicable record is added.

**Index 1 - EndTime, StartTime, RecipeName**

**Index 2 - PcbID**

- Index 3 - DeviceKey**
- Index 4 - NozzleKey**
- Index 5 - GroupNo**
- Index 6 - RecipeName, Lane, StartTime**
- Index 7 - ModelName**
- Index 8 - InspectResult**
- Index 9 - Endtime**

## PrintSeq [For Backup]

P/S

The PrintSeq table saves printing sequence information.

Row Name	PK	Data Type	Max. Length	Default	Explanation
PSKey	O	NUMBER/NUMERIC	16	0	Print sequence key Link key for PrintInfo table.
AreaNo	O	NUMBER/NUMERIC	6	NULL	Area number
Direction	O	NUMBER/NUMERIC	4	0	Printing direction 1: Front to Rear 2: Rear to Front 3: Front to Rear to Front 4: Rear to Front to Rear
McID		NUMBER/NUMERIC	4	0	An integer to uniquely identify a machine.
ModuleNo		NUMBER/NUMERIC	4	0	The logical module number for the NXT. For other machines, the number is fixed as "0".
AreaStart		NUMBER/NUMERIC	9	NULL	Area starting coordinate Units: nm
PrintSpeed		NUMBER/NUMERIC	9	NULL	Printing speed Units: nm/sec
PrintPressure		NUMBER/NUMERIC	9	NULL	Print pressure Units: 0.01 kg
EndTime		DATE/DATETIME	-		Production completed time for the newest panel produced on which the current PSKey was used.

## PrintSetting [For Backup]

P/S

The PrintSetting table saves printing setting information.

Row Name	PK	Data Type	Max. Length	Default	Explanation
GSKey	O	NUMBER/NUMERIC	16	0	Printing setting key Link key for PrintInfo table.
McID		NUMBER/NUMERIC	4	0	An integer to uniquely identify a machine.
ModuleNo		NUMBER/NUMERIC	4	0	The logical module number for the NXT. For other machines, the number is fixed

Row Name	PK	Data Type	Max. Length	Default	Explanation	
					as "0".	
FrontXOffset		NUMBER/NUMERIC	9	NULL	X-direction offset amount when printing to the front direction. Units: nm	
FrontYOffset		NUMBER/NUMERIC	9	NULL	Y-direction offset amount when printing to the front direction. Units: nm	
FrontQOffset		NUMBER/NUMERIC	9	NULL	Q-direction offset amount when printing to the front direction. Units: udeg	
RearXOffset		NUMBER/NUMERIC	9	NULL	X-direction offset amount when printing to the rear direction. Units: nm	
RearYOffset		NUMBER/NUMERIC	9	NULL	Y-direction offset amount when printing to the rear direction. Units: nm	
RearQOffset		NUMBER/NUMERIC	9	NULL	Q-direction offset amount when printing to the rear direction. Units: udeg	
FrontOffContact		NUMBER/NUMERIC	9	NULL	Panel height offset amount when printing to the front direction. Units: mm	
RearOffContact		NUMBER/NUMERIC	9	NULL	Panel height offset amount when printing to the rear direction. Units: mm	
SolderSupplyInterval		NUMBER/NUMERIC	9	NULL	Solder supply frequency	
TargetTemperature		NUMBER/NUMERIC	5	NULL	Set temperature when printing Units: 0.1 degrees C	
TargetHumidity		NUMBER/NUMERIC	5	NULL	Set humidity when printing Units: 0.1%	
FrontInstallationAngleSqueegee		NUMBER/NUMERIC	9	NULL	Front squeegee attachment angle Units: udeg	
RearInstallationAngleSqueegee		NUMBER/NUMERIC	9	NULL	rear squeegee attachment angle Units: udeg	
RollDiameter		NUMBER/NUMERIC	9	NULL	Diameter of solder roll Units: nm	
EndTime		DATE/DATETIME	-		Production completed time for the newest panel produced on which the current GSKey was used.	

## PrintInfo [For Backup]

P/S

The PrintInfo table saves printing result information.

Row Name	PK	Data Type	Max. Length	Default	Explanation	
McID	O	NUMBER/NUMERIC	4	0	An integer to uniquely identify a machine.	
ModuleNo	O	NUMBER/NUMERIC	4	0	The logical module number for the NXT. For other machines, the number is fixed as "0".	
PcbID	O	VARCHAR2/VARCHAR	64		Unique character string that is used to identify the panel.	
PcbRecNo	O	NUMBER/NUMERIC	9	0	Integer used to make the panel ID unique when multiples of the same panel ID exist.	
AreaNo	O	NUMBER/NUMERIC	6	0	An integer to identify an area number.	

Row Name	PK	Data Type	Max. Length	Default	Explanation	
Direction	O	NUMBER/NUMERIC	4	0	Printing direction 1: Front to Rear 2: Rear to Front 3: Front to Rear to Front 4: Rear to Front to Rear	
LastPrint		NUMBER/NUMERIC	5	NULL	Time lapsed since the previous print. Units: seconds	
Temperature		NUMBER/NUMERIC	5	NULL	Temperature in machine when printing. Units: 0.1 degrees C	
Humidity		NUMBER/NUMERIC	5	NULL	Humidity in machine when printing. Units: 0.1%	
Recovery		NUMBER/NUMERIC	4	NULL	Recovery printing 0: Normal printing 1: Loaded 2: External input	
SqueegeePos		NUMBER/NUMERIC	4	NULL	Squeegee attachment position 0: Front 1: Rear	
SoldMixTimes		NUMBER/NUMERIC	4	NULL	Solder supply count	
LastNormalClean		NUMBER/NUMERIC	6	NULL	Number of printed panels after normal cleaning was performed	
LastSpecialClean		NUMBER/NUMERIC	6	NULL	Number of printed panels after special cleaning was performed	
LastSoldSupply		NUMBER/NUMERIC	6	NULL	Number of printed panels after supplying solder	
RollDiameter		NUMBER/NUMERIC	9	NULL	Diameter of solder roll Units: nm	
AreaStart		NUMBER/NUMERIC	9	NULL	Area starting coordinate Units: nm	
MaxPressure		NUMBER/NUMERIC	9	NULL	Maximum printing pressure Units: 0.01 kg	
MinPressure		NUMBER/NUMERIC	9	NULL	Minimum printing pressure Units: 0.01 kg	
AvgPressure		NUMBER/NUMERIC	9	NULL	Average printing pressure Units: 0.01 kg	
PanelGrowthRate		NUMBER/NUMERIC	9	NULL	Panel stretch ratio Units: 0.001%, -10000 to 10000	
XrevisionDistance		NUMBER/NUMERIC	9	NULL	Mask correction amount in the X-direction Units: nm	
YrevisionDistance		NUMBER/NUMERIC	9	NULL	Mask correction amount in the Y-direction Units: nm	
QrevisionDistance		NUMBER/NUMERIC	9	NULL	Mask correction amount in the Q-direction Units: ndeg	
MaskGrowthRate		NUMBER/NUMERIC	9	NULL	Mask stretch ratio Units: 0.001%, -10000 to 10000	
Mkey		NUMBER/NUMERIC	16	NULL	Mask ID key Link key for MKey table.	
Qkey		NUMBER/NUMERIC	16	NULL	Squeegee ID key	

Row Name	PK	Data Type	Max. Length	Default	Explanation	
		MERIC			Link key for QKey table.	
QHkey		NUMBER/NU MERIC	16	NULL	Squeegee holder ID key Link key for QHKey table.	
Skey		NUMBER/NU MERIC	16	NULL	Solder ID key Link key for SKey table.	
Bkey		NUMBER/NU MERIC	16	NULL	Backup plate key Link key for BKey table.	
GSkey		NUMBER/NU MERIC	16	NULL	Printing setting key Link key for PrintSetting table.	
PSkey		NUMBER/NU MERIC	16	NULL	Print sequence key Link key for PrintSeq table.	
SSkey		NUMBER/NU MERIC	16	NULL	Snap-off sequence ID key Link key for SnapOffSeq table.	
MSkey		NUMBER/NU MERIC	16	NULL	Mask setting key Link key for MaskSetting table.	
TimeStamp		DATE/DATETIME			Time at which the transmission from the machine was sent	

## Placement [For Backup]

## P/S

Placement information from the machines when panels are assembled is saved in the Placement table.

Row Name	PK	Data Type	Max. Length	Default	Explanation
McID	O	NUMBER/NU MERIC	4	0	Unique character string which identifies the machine
ModuleNo	O	NUMBER/NU MERIC	4	0	This is the NXT logical module number. This value is set to 0 for all other machines.
PcbID	O	VARCHAR2/VARCHAR	64		Unique integer that identifies the panel.
PcbRecNo	O	NUMBER/NU MERIC	9	0	This is a unique integer used to identify the panel ID in the case where the same ID is entered twice.
RecNo	O	NUMBER/NU MERIC	6	0	
BlockNo		NUMBER/NU MERIC	4	0	Block number in the panel.
SeqNo		NUMBER/NU MERIC	56	0	Sequence number.
ErrorInfo		VARCHAR2/VARCHAR	1	Null	Error information. 0: Normal 1: Parts error (inspection error) 2: Rejected by machine 3: Part pick-up miss 4: Unused pick-up miss
Dkey		NUMBER/NU MERIC	14	Null	D-key. Key created to link the part ID and the feeder ID for the part used in this sequence.

Row Name	PK	Data Type	Max. Length	Default	Explanation
Nkey		NUMBER/NUMERIC	14	Null	N-key Key created to link the nozzle ID for the part used in this sequence.
Rkey		NUMBER/NUMERIC	14	Null	R-key. This is the key used to link the reference ID used for that placing sequence.
LightingClass		VARCHAR2/VARCHAR	10 25	Null	Lighting class
RemainFloorLife		NUMBER/NUMERIC	9	-1	Indicates the remaining floor life during productions (in minutes). -1: Unlimited or not opened -2: Judged not to be a dry component.
RemainBoxLife		NUMBER/NUMERIC	9	-1	Indicates the remaining floor life during productions (in minutes). -1: Unlimited or not opened -2: Judged not to be a dry component.
Part2DCode		VARCHAR2/VARCHAR	64	0	Part 2D code (NULL when there is no applicable part)
POSX		NUMBER/NUMERIC	9	-1	Not currently used
POSY		NUMBER/NUMERIC	9	-1	Not currently used
BinCode		VARCHAR2/VARCHAR	25	Null	BinCode
PKey		NUMBER/NUMERIC	14	0	Pkey This is the key for linking to the ID of the placement parameters which were used in that placement sequence.
NotchOrientation		NUMBER/NUMERIC	9	0	Not currently used
MapRotation		NUMBER/NUMERIC	9	0	Not currently used
WaferDirection		NUMBER/NUMERIC	9	0	Not currently used
HHKey		NUMBER/NUMERIC	14	0	Not currently used
DIDLCRMEASUREMODE		NUMBER/NUMERIC	4	0	Measuring mode 0. Not measured 1. L (H: Henry) 2. C (F: Farad) 3. R ( $\Omega$ : Ohm)
DIDLCREXPECTEDVALUE		NUMBER/NUMERIC	32,16	0.0	Expected value
DIDLCRMEASUREDVALUE		NUMBER/NUMERIC	32,16	0.0	Measured value

#### Update timing:

When a traceability data notification is sent from the machine during production (in the case of the NXT, when the current panel is finished at all modules) in "Full trace mode", the applicable record is added.

## TouchdownResult [for backup]

P/S

Touchdown sensor related information is saved in the TouchdownResult table.

Row name	PK	Data type	Max. length	Default	Explanation	
McID	O	NUMBER/NUMERIC	4	0	Unique character string that is used to identify the machine.	
ModuleNo	O	NUMBER/NUMERIC	4	0	Logical module number. For machines other than modular machines, the number is fixed as "0".	
PcbID	O	VARCHAR 2/VARCHAR	64		An integer that is used to uniquely identify a panel.	
PcbRecNo	O	NUMBER/NUMERIC	9	0	Integer used to make the panel ID unique when multiples of the same panel ID exist.	
RecNo	O	NUMBER/NUMERIC	6	0		
TouchdownResult		NUMBER/NUMERIC	4	0	Machine touchdown detection result 0: Touchdown was not detected 1: Touchdown was detected	
ContactHeight		NUMBER/NUMERIC	6	0	The height (um) from panel to the nozzle tip when the touchdown sensor detects touchdown.	
ActualStopPoint		NUMBER/NUMERIC	6	0	The height (um) from the panel to the nozzle tip when stopped after the touchdown sensor detects touchdown.	

## Pkey [for Backup]

P/S

The placement parameters which were used in the placement sequence are saved in the Pkey table.

A record is added when the job is changed.

Row name	PK	Data type	Max. length	Default	Description	
PKey	O	NUMBER/NUMERIC	14	0	Pkey  This is the key for linking to the ID of the placement parameters which were used in that placement sequence.	
PartNumber		VARCHAR 2/VARCHAR	64	NULL	Part number	
ColletName		VARCHAR 2/VARCHAR	15	NULL	Specifies the custom collet name used for pushing.  Max.15	
FirstPickupPosCheck		NUMBER/NUMERIC	4	1	Specifies whether to check the first die pickup position after part supply.  0: No 1: Yes	
ReferenceOperatorCheck		NUMBER	4	1	Specifies whether an operator first	

Row name	PK	Data type	Max. length	Default	Description	
		R/NUMERIC			checks the reference die. 0: No 1: Yes	
PushUpParameterMode		NUMBER/NUMERIC	4	1	Push parameters setting method 0: Auto 1: Manual	
PushUpHeight		NUMBER/NUMERIC	9	0	Specifies the height to which the die is pushed up by the pusher pins. (Units: um)	
SpeedChangeHeight		NUMBER/NUMERIC	9	0	Specifies the height at which the pusher parameter is changed. (Units: um)	
FirstLiftSpeed		NUMBER/NUMERIC	9	0	Speed of the pusher pin during its ascent before it changes speed (Units: %)	
SecondLiftSpeed		NUMBER/NUMERIC	9	0	Acceleration after the speed is changed (Units: %)	
PushUpPodHeightOffset		NUMBER/NUMERIC	9	0	Pusher pot height offset (Units: um)	
PushUpWaitTime		NUMBER/NUMERIC	9	0	Stopping time of the pusher pins in the upper position (Units: msec)	
PickOffsetX		NUMBER/NUMERIC	9	0	X-direction offset when picking up dies and pushing (Units: um)	
PickOffsetY		NUMBER/NUMERIC	9	0	Y-direction offset when picking up dies and pushing (Units: um)	
PickOffsetZ		NUMBER/NUMERIC	9	0	Z-direction offset when picking up dies (Units: um)	
OffsetZOnFlip		NUMBER/NUMERIC	9	0	Z-direction offset for die pickup between the PP head and the main head when performing flipping (Units: um)	
PickUpWaitTime		NUMBER/NUMERIC	9	0	Stopping time in the lower position during die pickup (Units: msec)	
ReduceColletVacuumPressure		NUMBER/NUMERIC	4	0	Specifies whether or not the pusher unit uses vacuum decompression. 0: No 1: Yes	
EnablePressureSensor		NUMBER/NUMERIC	4	0	Specifies whether to lower the head until the sensor turns on when nozzles are moving to pick up parts. 0: No 1: Yes	
PlacePressure		NUMBER/NUMERIC	9	0	Pressure used when placing parts. (Units: gf)	

Row name	PK	Data type	Max. length	Default	Description	
		RIC				
SoftPlaceSpeed		NUMBER/NUMERIC	9	0	Specifies the acceleration/deceleration of the Z-axis lowering and raising during placement. (Units: %)	
PlacementWaitTime		NUMBER/NUMERIC	9	0	Stopping time of the Z-axis at the lower position during placement (Units: msec)	
EndTime		DATE/DATETIME		NULL	Production completed time for the newest panel produced on which the current PDkey was used.	

## QHkey [For Backup]

P/S

The QHkey table saves squeegee holder ID key information.

Row Name	PK	Data Type	Max. Length	Default	Explanation	
QHKey	O	NUMBER/NUMBERIC	16	0	Squeegee holder ID key Link key for PrintInfo table.	
Location	O	NUMBER/NUMBERIC	1	1	Front/rear identification 1: Front 2: Rear	
SQEHLID		VARCHAR 2/VARCHAR	128	NULL	Squeegee holder link key.	
SQEHLDNAM		VARCHAR 2/VARCHAR	64	NULL	Squeegee holder name	
SQEHLDVND		VARCHAR 2/VARCHAR	64	NULL	Squeegee holder vendor	
SQEHLDDOT		VARCHAR 2/VARCHAR	64	NULL	Squeegee holder lot number	
SQEHLDDTE		VARCHAR 2/VARCHAR	64	NULL	Squeegee holder date code	
EndTime		DATE/DATETIME	-		Production completed time for the newest panel produced on which the current QHkey was used.	

## Qkey [For Backup]

P/S

The Qkey table saves squeegee ID key information.

Row Name	PK	Data Type	Max. Length	Default	Explanation	
QKey	O	NUMBER/N UMERIC	16	0	Squeegee ID key Link key for PrintInfo table.	
Location	O	NUMBER/N UMERIC	1	1	Front/rear identification 1: Front 2: Rear	
SQEID		VARCHAR 2/VARCHA R	128	NULL	Squeegee link key.	
SQENAM		VARCHAR 2/VARCHA R	64	NULL	Squeegee name	
SQEVDN		VARCHAR 2/VARCHA R	64	NULL	Squeegee vendor	
SQELOT		VARCHAR 2/VARCHA R	64	NULL	Squeegee lot number	
SQEDTE		VARCHAR 2/VARCHA R	64	NULL	Squeegee date code	
EndTime		DATE/DAT ETIME	-		Production completed time for the newest panel produced on which the current Qkey was used.	

## Rkey [For Backup]

P/S

The reference ID used for the placing sequence is saved in the Rkey table.

Row Name	PK	Data Type	Max. Length	Default	Explanation
Rkey	O	NUMBER/NU MERIC	14	0	R-key.
Reference		VARCHAR2/V ARCHAR	64	Null	Reference character string.
EndTime		DATE/DATETI ME		Null	The production completion time for the newest panel of those panels using this Rkey.

Update timing:

When a traceability data notification is sent from the machine during production (in the case of the NXT, when the current panel is finished at all modules), the applicable record is added.

When a traceability data notification is sent from the machine during production (in the case of the NXT, when the current panel is finished at all modules), the applicable record is updated.

## Skey [For Backup]

P/S

The Skey table saves solder ID key information.

Row Name	PK	Data Type	Max. Length	Default	Explanation	
SKey	O	NUMBER/N UMERIC	16	0	Solder ID key Link key for PrintInfo table.	
SLDid		VARCHAR2/ VARCHAR	128	NULL	Solder ID	
SLDNAM		VARCHAR2/ VARCHAR	64	NULL	Solder name	
SLDVND		VARCHAR2/ VARCHAR	64	NULL	Solder vendor	
SLDLOT		VARCHAR2/ VARCHAR	64	NULL	Solder lot number	
SLDDTE		VARCHAR2/ VARCHAR	64	NULL	Solder date code	
EndTime		DATE/DATE TIME	-		Production completed time for the newest panel produced on which the current Skey was used.	

## SnapOffSeq [For Backup]

P/S

The SnapOffSeq table saves snap-off sequence information.

Row Name	PK	Data Type	Max. Length	Default	Explanation	
SSKey	O	NUMBER/N UMERIC	16	0	Snap-off sequence key Link key for PrintInfo table.	
AreaNo	O	NUMBER/N UMERIC	6	NULL	Area number	
Direction	O	NUMBER/N UMERIC	4	0	Printing direction 1: Front to Rear 2: Rear to Front 3: Front to Rear to Front 4: Rear to Front to Rear	
McID		NUMBER/N UMERIC	4	0	An integer to uniquely identify a machine.	
ModuleNo		NUMBER/N UMERIC	4	0	The logical module number for the NXT. For other machines, the number is fixed as "0".	
AreaStart		NUMBER/N UMERIC	9	NULL	Area starting coordinate Units: nm	
SnapOffSpeed		NUMBER/N UMERIC	9	NULL	Snap-off sequence speed Units: nm/sec	
SnapOffDistance		NUMBER/N UMERIC	9	NULL	Snap-off sequence distance Units: mm	
EndTime		DATE/DATE TIME	-		Production completed time for the newest panel produced on which the current SSKey was used.	

## SystemInfo [Backup (Browse)]

V/(P)

All types of system settings values are saved in the SystemInfo table.

Row Name	PK	Data Type	Max. Length	Default	Explanation
SID	O	NUMBER/N UMERIC	1		This table has a single record. Multiple entries are avoided by using the PK setting and entering a specific setting ahead of time.
UsePrefix		NUMBER/N UMERIC	4	0	This flag is set when a barcode prefix is used. 0: OFF 1: ON
UseC3		NUMBER/N UMERIC	4	0	This flag s used to enable C3 codes in the system. 0: OFF 1: ON
UseDid		NUMBER/N UMERIC	4	1	This flag enables the "Use DID" mode. 0: Without DID 1: Use DID ( <b>Default</b> ) 2: Automatically register DIDs
NoPrefixFilter		VARCHAR2/ VARCHAR	64	Null	This is the name of the barcode filter. Set the barcode filter name when the barcode prefix is not specified.
DaysKeepTrace		NUMBER/N UMERIC	4	7	This indicates the period (days) that the log is retained in the SystemTrace table. Trace data that exceeds this period is automatically deleted. Data is not automatically deleted when set to 0. Default: 30 days
NTPServerName		VARCHAR2/ VARCHAR	64	Null	NTP server name
NTPIinterval		NUMBER/N UMERIC	9	Null	This is date adjustment interval with the NTPserver. (sec)
NTPRetry		NUMBER/N UMERIC	4	Null	This is the number of tries when performing date adjustment one time.
VerifyCheckMode		NUMBER/N UMERIC	4	0	Specifies whether to perform the blocking function (Unwanted Lot) decision in blocking mode (prohibited) or non-blocking mode (permitted). 0: Blocking function not supported (Default) 1: Blocking mode 2: Non-blocking mode
VerifyCheckModeForJob		NUMBER/N UMERIC	4	0	Specifies usage of the job name blocking function. 0: Job blocking not used 1: Use job blocking in block mode 2: Use job blocking in non-block mode
BlockMode		NUMBER/N UMERIC	4	0	Specifies the system operation when an Unwanted Lot prohibited by the blocking function is detected.

Row Name	PK	Data Type	Max. Length	Default	Explanation
					<p>0: Blocking function not supported (Default)</p> <p>1: Warning (Awaits RESET switch.)</p> <p>2: Stop (Stops operation completely.)</p>
PanelFilter		VARCHAR2/ VARCHAR	64	Null	<p>Barcode filter name</p> <p>Sets the name of the dedicated barcode filter for the panel ID.</p> <p>Filtering is not performed if left empty.</p>
DaysKeepTraceUnwanted		NUMBER/N UMERIC	4	90	<p>Indicates the length of time (days) that logs are stored in the UnwantedTrace table.</p> <p>Old traces that exceed the specified period are automatically deleted.</p> <p>Automatic deletion is not performed if set to 0.</p> <p>90 days is set as the default value.</p>
FloorTMP		NUMBER/N UMERIC	4	-1	<p>Indicates the controlled air temperature inside the factory</p> <p>This value is used when administering dry components.</p> <p>A value from 0 to 99° C can be set. However, the temperature inside the factory is not sensed when set to "-1" (default).</p>
FloorRH		NUMBER/N UMERIC	4	-1	<p>Indicates the controlled humidity inside the factory</p> <p>This value is used when administering dry components.</p> <p>A value from 0 to 99% can be set. However, the humidity inside the factory is not sensed when set to "-1" (default).</p>
DryComponent		NUMBER/N UMERIC	4	0	<p>Determines whether the dry component administration function is enabled or disabled.</p> <p>0: Disabled (All handled as non-dry components.)</p> <p>1: Enabled</p>
UsePanelGroupID		NUMBER/N UMERIC	4	1	<p>Determines whether a PanelGroupID input occurs at PanelGroupID registration.</p> <p>0: OFF 1: ON (Default)</p>
UsePanelGroupName		NUMBER/N UMERIC	4	0	<p>Determines whether a PanelGroupName input occurs at PanelGroupID registration.</p> <p>0: OFF (Default) 1: ON</p>
UseProductNo		NUMBER/N UMERIC	4	0	<p>Determines whether a ProductNo input occurs at PanelGroupID registration.</p> <p>0: OFF (Default) 1: ON</p>
UserManagement		NUMBER/N UMERIC	4	0	<p>Specifies whether users can set items usually reserved for Fujitrax Web administrators.</p> <p>If "1" is set, users can see and use</p>

Row Name	PK	Data Type	Max. Length	Default	Explanation
					<p>administrator items.</p> <p>0: Administrators only</p> <p>1: Give administrator privileges to users</p>
PartsBlock		NUMBER/N UMERIC	4	0	<p>Sets the parts blocking function.</p> <p>0: Parts blocking not used</p> <p>1: Enable restriction list only</p> <p>2: Enable block list only</p> <p>3: Enable both restriction list and block list</p>
DataTransactionHost		VARCHAR2/ VARCHAR	64	Null	<p>[Explanation]</p> <p>Registers the host name for the Data Transaction Server that is accessed when using the scale up function.</p> <p>[Setting values]</p> <p>Null: Scale up function not supported</p>
AutoDELTIME		NUMBER/N UMERIC	4	0	<p>[Explanation]</p> <p>When deleting DID data for parts or FIDL data for feeders, this specifies that the data not be deleted immediately but instead be deleted after a specified period of time.</p> <p>When DID and FIDL data is deleted, the DEL flag is set to ON and the last modified time is refreshed.</p> <p>The database then periodically performs a search to find data for which the DEL flag is ON, and proceeds to delete data if the amount of time that has elapsed since the last modified time exceeds the specified delay period.</p> <p>[Setting values] / [Setting range]</p> <p>Specify the deletion delay period (Unit: hr)</p> <p>0: Delete data immediately</p>
UseSmallDid		NUMBER/N UMERIC	4	0	<p>Specify whether to use case sensitive DIDs.</p> <p>0: Do not use case sensitive DIDs</p> <p>1: Use case sensitive DIDs</p>
BoxTMP		NUMBER/N UMERIC	4	-1	<p>Temperature of dry box.</p> <p>Specified when performing box life management.</p> <p>Range: 0 to 99 °C.</p> <p>-1: Temperature not referenced.</p>
BoxRH		NUMBER/N UMERIC	4	-1	<p>Humidity of dry box.</p> <p>Specified when performing box life management.</p> <p>Range: 0 to 99%.</p> <p>-1: Humidity not referenced.</p>
AIMEXDispMode		NUMBER/N UMERIC	4	0	Not current used.
UseSmallPartBarcode		NUMBER/N	4	0	Specifies whether to distinguish between

Row Name	PK	Data Type	Max. Length	Default	Explanation
		UMERIC			<p>upper and lower case on the part barcode.</p> <p>0: Do not distinguish between upper and lower case.</p> <p>1: Distinguish between upper and lower case.</p>
SynchronizedMode		NUMBER/N UMERIC	4	0	<p>Placement results information synchronous mode.</p> <p>0: Do not synchronize</p> <p>1: Synchronize</p>
IDRecoveryMode		NUMBER/N UMERIC	4	0	<p>Setting for whether to stop the machine and read the panel ID offline when inserting a panel manually at a module in a line and the FLP unload sensor does not respond.</p> <p>0: Do not stop machine</p> <p>1: Stop machine</p>

## SystemTrace [Backup (Write)]

V/(P)

All types of system error log are saved in the SystemTrace table.

Row Name	PK	Data Type	Max. Length	Default	Explanation
ApplicationID		NUMBER/NU MERIC	4	Null	ID used to indicate the application. This application ID and the Application Master are linked.
TimeStamp		DATE/DATET IME		Null	Date of occurrence
TimeDetail		NUMBER/NU MERIC	4	Null	Records the value in milliseconds on the date of the occurrence.
LineID		NUMBER/NU MERIC	4	Null	Indicates the line for which the error log was generated (location at which the error occurred.)
McID		NUMBER/NU MERIC	4	Null	Indicates the machine or camera for which the error log was generated (location at which the error occurred.)
Lane		NUMBER/NU MERIC	4	Null	<p>Indicates the lane.</p> <p>Triple lanes exist for NXT. There are no lanes for PCC and VME machines, and the setting is therefore fixed as "single lane" for those machines.</p> <p>A "single lane" setting is also used for shuttle conveyors.</p> <p>0: Single lane (Default)</p> <p>1: Double lane, LANE 1 Triple lane, LANE 1</p> <p>2: Double lane, LANE 2 Triple lane, LANE 2</p> <p>3: Triple lane, LANE 3</p>

Row Name	PK	Data Type	Max. Length	Default	Explanation
					"-1" is set for information unrelated to lanes.
ErrorLevel		NUMBER/NUMERIC	4	Null	Indicates the message level 1: Error 2: Warning 3: Information 4: Other
ErrorCode		VARCHAR2/VARCHAR	8	Null	Error code at that time (Hexadecimal notation). The Fuji standard error codes are used. Default value: null
ErrorMsg		VARCHAR2/VARCHAR	1024	Null	Shows the error details
Note		VARCHAR2/VARCHAR	2048	Null	Shows a supplementary explanation etc. for the message details
EnableMode		NUMBER/NUMERIC	4	Null	Indicates whether the Enable function is enabled or disabled. 0: Disabled, 1: Enabled

## T\_VER

## V/P/S

Database version information is saved in the T\_VER table.

Row Name	PK	Data Type	Max. Length	Default	Explanation
SID	O	NUMBER/NUMERIC	1		This table has a single record. Multiple records can be avoided by using the PK setting and entering a specific setting ahead of time.
VERNO		VARCHAR2/VARCHAR	20	Required	Database version number. Format: R2.09.00.00

## T\_LOC

## V/(P)

The locations of current feeders and parts, and part lot information are saved in the T\_LOC table. The information for parts no longer used in production is deleted.

Row Name	PK	Data Type	Max. Length	Default	Explanation
LOCMID	O	NUMBER/NUMERIC	4	0	Unique integer that identifies the machine.
LOCSTG	O	NUMBER/NUMERIC	4	0	Stage number. Set the value below for a new machine (NXT). Module no. x 100 + stage no.
LOCGRP	O	NUMBER/NUMERIC	4	0	Group number.
LOCCLS	O	NUMBER/NUMERIC	4	0	Class

Row Name	PK	Data Type	Max. Length	Default	Explanation
		UMERIC			0:Tape 1:Tray
LOCSLT	O	NUMBER/N UMERIC	4	0	<p>Slot number.</p> <p>When parts that will not be used in the recipe are set on a slot specified in the recipe, (LOCSTT=4), this value is the sum of the slot number + 5000.</p>
LOCSSLT	O	NUMBER/N UMERIC	4	0	Subslot number.
LOCSTG	O	NUMBER/N UMERIC	4	0	<p>Used only when dynamic allocation function is enabled.</p> <p>The currently allocated stage No.</p>
LOCAGRP	O	NUMBER/N UMERIC	4	0	<p>Used only when dynamic allocation function is enabled.</p> <p>The currently allocated group No.</p>
LOCASLT	O	NUMBER/N UMERIC	4	0	<p>Used only when dynamic allocation function is enabled.</p> <p>The currently allocated slot No.</p> <p><del>When parts that will not be used in the recipe are set on a slot specified in the recipe, (LOCSTT=4), this value is the sum of the slot number + 5000.</del></p>
LOCASSLT	O	NUMBER/N UMERIC	4	0	<p>Used only when dynamic allocation function is enabled.</p> <p>The currently allocated subslot No.</p>
LOCSTT		NUMBER/N UMERIC	4	0	<p>Stores the allocation status for the recipe configuration (LOCSTG ~ LOCSSLT) when using the dynamic allocation function.</p> <p>Dynamic allocation status:</p> <p>0: Dynamic allocation is not used.</p> <p>1: The slot is specified in the recipe, but parts have not yet been allocated to the slot.</p> <p>2: Parts have been allocated to the slot as specified in the recipe.</p> <p>3: Parts that were assigned to another slot have been allocated to a slot specified in the recipe.</p> <p>4: Parts that will not be used in the recipe have been allocated to a slot specified in the recipe.</p> <p>5: Parts that have been assigned in the recipe have been allocated to a slot that is not specified in the recipe.</p> <p>6: Parts that will not be used in the recipe have been allocated to a slot that is not specified in the job.</p> <p>Note: When using dual lane production, "Specified in the recipe" means consideration is given to both recipes when allocating parts.</p>

Row Name	PK	Data Type	Max. Length	Default	Explanation
LOCMDF		DATE/DATE TIME		Null	Date and time the record was changed.
LOCSTT		NUMBER/N UMERIC	4	-1	Device status. Indicates the device status. See " <a href="#">Device status definitions</a> "
LOCDRYSTT		NUMBER/N UMERIC	4	0	Indicates the floor life status for dry components. 0: Floor life valid 1: Floor life up warning 2: Floor life up 3: Box life up
LOCFIDL		VARCHAR2/ VARCHAR	15		Unique character string that identifies the feeder.
LOCFIDLX		NUMBER/N UMERIC	6	Null	Unique character string to identify the VME machine feeders.
LOCFTYP		NUMBER/N UMERIC	4	4	Feeder type. 0: Tray 1: Bulk 2: Adhesive 3: Emboss 4: Paper 5: Stick 6: Flip chip 7:STU 8:Paper/Emboss
LOCSCF		NUMBER/N UMERIC	1	0	Indicates whether a feeder set at the machine is using FIDL or 2ndFIDL. This is set when the feeder is mounted on the machine. 0: FIDL 1: 2ndFIDL
LOC DID		VARCHAR2/ VARCHAR	31	Null	Unique character string which identifies the part.
LOCBAR		VARCHAR2/ VARCHAR	64	Null	Part barcode
LOCAVL		VARCHAR2/ VARCHAR	64	Null	AVL name
LOCRMT		NUMBER/N UMERIC	9	-2	Remaining time for production (sec.).
LOCRMB		NUMBER/N UMERIC	9	-2	Remaining number of panels that can be produced (panels).
LOCRMTP		NUMBER/N UMERIC	9	-2	Shows the length (cm) of remaining part tape.  When a part with a splicing warning value is set and the tape length is measured, the length is recorded. (NXT/ AIM/AIMEX only) -2: Not supported -1: Unknown

Row Name	PK	Data Type	Max. Length	Default	Explanation
					0~:Tape length (cm) (Whole number)
LOCSPASTT		NUMBER/N UMERIC	4	-1	<p>Replacement status for this part.</p> <p>-1: Neither the original or the replaced part.</p> <p>0: Original part for which no alternate feeder setting has been made.</p> <p>1: An original part for which an alternate feeder has been set.</p> <p>2: Set only for another alternate feeder.</p>
LOCSPALOC		VARCHAR2/ VARCHAR	700	Null	<p>Potential alternate feeder slot</p> <p>Indicates use of <b>0, 1, 2, or 3</b> using a bit assignment for each slot.</p> <p>0: This is not the alternate part for this record.</p> <p>1: This is the alternate part for this record (Stage 1).</p> <p>2: This is the alternate part for this record (Stage 2).</p> <p>3: This is the alternate part for this record (Stage 1 and Stage 2).</p>
LOCPGID		NUMBER/N UMERIC	9	0	The current first program ID
LOCPGID2		NUMBER/N UMERIC	9	0	The current second program ID
LOCPGID3		NUMBER/N UMERIC	9	0	The current third program ID
LOCUSECNTL1		NUMBER/N UMERIC	6	0	<p>Save the number of parts used at Lane 1 for the current production job.</p> <p>("0" for all machines other than the NXT/AIM/AIMEX)</p>
LOCUSECNTL2		NUMBER/N UMERIC	6	0	<p>Save the number of parts used at Lane 2 for the current production job.</p> <p>("0" for all machines other than the NXT/AIM/AIMEX)</p>
LOCUSECNTL3		NUMBER/N UMERIC	6	0	<p>Save the number of parts used at Lane 3 for the current production job for that slot.</p> <p>("0" for all machines other than the NXT)</p>
LOCGROUPDEV		VARCHAR2/ VARCHAR	60	Null	Group device name
LOCMASTERFLAG		NUMBER/N UMERIC	2	0	<p>Saves if data is for LED or resistor part when using group device management.</p> <p>0: Resistor</p> <p>1: LED</p>
LOCLIGHTINGCLASS		VARCHAR2/ VARCHAR	10 25	Null	Lighting class for the group device management function.
LOCGROUPBOARD		NUMBER/N UMERIC	9	0	<p>Saves the production possible board count for LED parts when using the group device management function.</p> <p>Only saved for the first slot record in the same group.</p>

Row Name	PK	Data Type	Max. Length	Default	Explanation
LOCTRAYOUT		NUMBER/N UMERIC	9	-2	<p>This is the amount of time taken for the tray unit-LT magazine to move to the escape position.</p> <p>-2: Not supported (For trays without position checking on the tray unit-LT).</p> <p>-1: Not specified.</p> <p>0~: The amount of time taken for the magazine to move to the escape position.</p>
LOCRETAINERCH ECK		NUMBER/N UMERIC	4	0	<p>Specify whether to use a retainer presence check.</p> <p>0: Do not check</p> <p>1: Check</p>
LOCFEEDERTYPE		NUMBER/N UMERIC	4	0	<p>Specify the feeder type.</p> <p>0: Any feeder</p> <p>1: W08</p> <p>2: W08b/W08c</p>
LOCVALIDTERM		NUMBER/N UMERIC	9	0	<p>Specify the valid use period for parts. (Units: mins)</p> <p>*When the default value of 0 is used, no checks are performed for the valid use period.</p>
LOCMOTORFIDL		VARCHAR2/ VARCHAR	15	NULL	Not currently used.
LOCFTYPE		NUMBER/N UMERIC	4	0	<p>Feeder type Setting list / range Type f: 0x90 to 0x9A (Examples) 0x90: Type f 8 mm wide 0x91: Type f 12 mm wide 0x92: Type f 16 mm wide 0x93: Type f 24 mm wide 0x94: Type f 32 mm wide 0x95: Type f 44 mm wide 0x96: Type f 56 mm wide 0x97: Type f 72 mm wide 0x98: Type f 88 mm wide 0x99: Type f 104 mm wide 0x9A: Type f 4 mm wide</p>
LOCFSUBTYPE		NUMBER/N UMERIC	9	0	Not currently used.
LOCUSEWAERM AP		NUMBER/N UMERIC	4	0	<p>Specifies whether there is a wafer map for the Fuji Flexa package data.</p> <p>0: None</p> <p>1: Present</p>
LOCFIDLC1		VARCHAR2/ VARCHAR	15	Null	Not currently used.
LOCFIDLC2		VARCHAR2/ VARCHAR	15	Null	Not currently used.

Row Name	PK	Data Type	Max. Length	Default	Explanation
LOCTSTT		NUMBER/N UMERIC	4	-1	Not currently used.
LOCC1STT		NUMBER/N UMERIC	4	-1	Not currently used.
LOCC2STT		NUMBER/N UMERIC	4	-1	Not currently used.

## Index 1 - LOCMID, LOCSTG, LOCAGRP, LOCCLS, LOCASLT, LOCASSLT

Update timing:

When job changeover is performed at the machine, device data records are added for that machine.

When a feeder is set on the machine (when the feeder ID is read), the data for that feeder and parts is updated.

When parts are spliced, the part data is updated.

When the feeder status changes at the machine, the device status is updated for the feeders in question. For feeder status details, refer to "Device status definitions".

When a used parts count notification is sent from the machine during production (in the case of the NXT, when the current panel is finished at all modules), the remaining production time and remaining panel count are updated.

## T\_DID

## V/(P)

Information about all parts in the factory is saved in this table.

Row Name	PK	Data Type	Max. Length	Default	Explanation
DIDDID	O	VARCHAR2/ VARCHAR	31		Unique character string which identifies this part.
DIDDELFLG		NUMBER/N UMERIC	1	0	Currently not used
DIDDISABLE		NUMBER/N UMERIC	1	0	Specifies the usage status of this part. 0 or Null: The part can be used 1: The part cannot be used
DIDDELFLG		NUMBER/N UMERIC	1	0	[Explanation] This value is set to "1" when part data is deleted. IDs that have a delete flag of "1" are treated as deleted data by the system, and are automatically deleted after a specified delay period has passed. <b>*Do not set this field for a user system.</b> [Setting values] / [Setting range] 0: Valid part 1: Deleted part
DIDBase		VARCHAR2/ VARCHAR	64	Null	Indicates the DID which caused the DID division. If it is the original DID, "Null" is saved. With regard to a 3rd generation DID at an

Row Name	PK	Data Type	Max. Length	Default	Explanation
					original DID → 2nd generation DID → 3rd generation DID division, the original DID is saved rather than the 2nd generation DID.
DIDSLD		VARCHAR2/VARCHAR	31	Null	The ID for the part spliced after this part.
DIDPTN		VARCHAR2/VARCHAR	64	Null	Part number.
DIDBAR		VARCHAR2/VARCHAR	64	Null	Barcode used to judge if a part is appropriate.
DIDBARNO		VARCHAR2/VARCHAR	64	Null	The Original Part Barcode is stored in the case of a part with multiple part vendors.
DIDQTY		NUMBER/N UMERIC	9	0	Number of remaining parts.
DIDLOQ		NUMBER/N UMERIC	9	0	Count value for "Parts out" warning. A parts out warning occurs when the DIDQTY value falls below this value.
DIDSLQ		NUMBER/N UMERIC	9	0	Count value for splicing warning. A splicing warning occurs when the DIDQTY value falls below this value.
DIDSLM		NUMBER/N UMERIC	9	0	Splicing limit value.
DIDOQTY		NUMBER/N UMERIC	9	0	Number of parts available prior to usage.
DIDVND		VARCHAR2/VARCHAR	32	Null	Manufacturer (vendor) of this part.
DIDLOT		VARCHAR2/VARCHAR	64	Null	Lot number of this part.
DIDDTE		VARCHAR2/VARCHAR	32	Null	Date code for this part. (Receiving date, etc.)
DIDLOC		VARCHAR2/VARCHAR	32	Null	Location administration number for this part. Specifies the respective part shelf, dry box, or dry oven part storage location, supporting the dry component and part location administration functions. "Null" is specified when parts are removed from storage.
DIDFUSR		VARCHAR2/VARCHAR	20	Null	Name of operator who initially created this part information.
DIDUSR		VARCHAR2/VARCHAR	20	Null	Name of operator who last updated this part information.
DIDUSRMDF		DATE/DATE TIME		Null	Date at which this part information was last updated by the operator.
DIDMCID		NUMBER/N UMERIC	4	0	Machine MCID that last updated the part information.
DIDMCMDF		DATE/DATE TIME		Null	Date at which this part information was last updated by the machine.
DIDFMDF		DATE/DATE TIME		Null	Date and time the part data was first created.
DIDMDF		DATE/DATE TIME		Null	Date and time the part data was last updated.

Row Name	PK	Data Type	Max. Length	Default	Explanation
DIDOPTS		DATE/DATE TIME		Null	Date when a dry part was unsealed (opened).
DIDSPC		NUMBER/N UMERIC	4	0	Indicates the splicing count. Shows how many spliced parts exist subsequent to this one.
DIDSPP		NUMBER/N UMERIC	4	1	Specifies whether splicing is permitted for this part. 0: Not permitted 1: Permitted
DIDSSSTT		NUMBER/N UMERIC	4	0	Indicates whether this part has passed by the splicing detection sensor. 0: Not passed 1: Passed
DIDLCR		NUMBER/N UMERIC	N/A	0	LCR measurement data
DIDDRYS		NUMBER/N UMERIC	4	0	Not currently used.
DIDDRYTS		DATE/DATE TIME		Null	Not currently used.
DIDUSED		NUMBER/N UMERIC	9	0	Not currently used.
DIDERR		NUMBER/N UMERIC	9	0	Not currently used.
DIDSTT		NUMBER/N UMERIC	4	-1	Not currently used.
DIDFIDLX		NUMBER/N UMERIC	6	Null	Not currently used.
DIDCPP		NUMBER/N UMERIC	9	0	Not currently used.
DIDMID		NUMBER/N UMERIC	4	0	Not currently used. Specifies the respective part shelf, dry box, or dry oven MCID, supporting the dry component and part location administration functions. "0" is specified when parts are removed from storage.
DIDSTG		NUMBER/N UMERIC	4	0	Not currently used.
DIDGRP		NUMBER/N UMERIC	4	0	Not currently used.
DIDCLS		NUMBER/N UMERIC	4	0	Not currently used.
DIDSLT		NUMBER/N UMERIC	4	0	Not currently use.
DIDSSLT		NUMBER/N UMERIC	4	0	Not currently used.
DIDRJP		NUMBER/N UMERIC	9	0	Machine condition part rejections The number of parts rejected due to machine conditions.
DIDNPC		NUMBER/N	9	0	Number of empty pickups

Row Name	PK	Data Type	Max. Length	Default	Explanation
		UMERIC			Failed pickups in which parts were not consumed.
DIDPER		NUMBER/N UMERIC	9	0	Number of failed pickups  Part pickup failed and the parts were consumed
DIDVERR		NUMBER/N UMERIC	9	0	Number of parts rejected by vision processing errors  The number of parts that were rejected due to vision processing errors.
DIDRSC		NUMBER/N UMERIC	9	0	Rescans  The number of times parts were not rejected and rescanned.
DIDLIGHTING		VARCHAR2/ VARCHAR	10 25	Null	Specifies the part lighting class used by the group device management function.  This is Null for parts not using the group device management function.
DIDSAFETYCNT		NUMBER/N UMERIC	9	0	This is the set group device limit when using the group device management function.  0 to 99999
DIDMIDOrg		NUMBER/N UMERIC	4	0	Specifies the prescribed shelf name for parts that are managed by the parts navigation function.
DIDLOCOrg		VARCHAR2/ VARCHAR	32	Null	Specifies the prescribed shelf number for parts that are managed by the parts navigation function.
DIDCheckinCount		NUMBER/N UMERIC	9	0	Specifies the number of times parts were checked into storage when using the parts navigation function.
DIDTRAYPACKAGE		NUMBER/N UMERIC	1	0	Specifies whether to use package management for tray parts.  0: Disable tray package management 1: Enable tray package management
DIDMEM		VARCHAR2/ VARCHAR	255	Null	Remarks for this part
DIDNote1		VARCHAR2/ VARCHAR	64	Null	Shows information entered by the user as a spare field.
DIDNote2		VARCHAR2/ VARCHAR	64	Null	Shows information entered by the user as a spare field.
DIDNote3		VARCHAR2/ VARCHAR	64	Null	Shows information entered by the user as a spare field.
DIDNote4		VARCHAR2/ VARCHAR	64	Null	Shows information entered by the user as a spare field.
DIDPTYP		NUMBER/N UMERIC	4	4	Part type  Setting list / range  0: Tray 1: Bulk 2: Adhesive 3: Emboss 4: Paper

Row Name	PK	Data Type	Max. Length	Default	Explanation
					<p>5: Stick 6: Flip chip 9: Wafer <i>Be aware that for tray parts, if this item is not set, then the parts are not handled as tray parts.</i></p>
DIDSPCHK		NUMBER/N UMERIC	4	0	<p>When performing double checks of splicing, the administrator determines whether or not splicing is required. Setting list / range 0: Normal permission splicing Status Or, splicing not performed 1: Waiting for administrator check</p>
DIDPARTSCHG		NUMBER/N UMERIC	4	0	Not currently used
DIDSHAPE		VARCHAR2/ VARCHAR	64	NULL	Not currently used
DIDPACKAGE		VARCHAR2/ VARCHAR	64	NULL	Not currently used
DIDCONNECT		NUMBER/N UMERIC	1	0	Not currently used.
DIDTARGETMC		NUMBER/N UMERIC	4	NULL	Not currently used.
DIDCAVITYF		NUMBER/N UMERIC	9	-1	Quantity of empty cavities during splicing (for tape being spliced to)
DIDCAVITYR		NUMBER/N UMERIC	9	-1	Quantity of empty cavities during splicing
DIDMODULE		NUMBER/N UMERIC	4	0	Registers the module scheduled to use the DID.
DIDLCRMESURE MODE		NUMBER/N UMERIC	4	0	<p>Measuring mode 0. Not measured 1. L (H: Henry) 2. C (F: Farad) 3. R (<math>\Omega</math>: Ohm)</p>
DIDLCREXPECTED VALUE		NUMBER/N UMERIC	32,16	0.0	Expected value
DIDLCRMESURE DVALUE		NUMBER/N UMERIC	32,16	0.0	Measured value
DIDAREA		NUMBER/N UMERIC	4	0	<p>Description The area information one belongs to is given. The area is registered to LineNames. Setting list Applicable area Line ID Added field position Added last</p>

Update timing:

When reel or tray part data is registered in KIT Manager, records are added for those parts.

When reel or tray part data is edited in KIT Manager, records are updated for those parts.

When reel or tray part data in KIT Manager, the applicable records are deleted.

When performing quick verification while in DID auto registration mode, records are added for those parts.

When performing splicing verification, the part ID for the newly spliced parts is set as the DIDSID for the applicable record (previous part) (NXT/AIM/AIMEX)

When performing verification in External Changeover while in DID auto registration mode, records are added for those parts.

When a used parts count notification is sent from a machine during production (in the case of the NXT, when the current panel is finished at all modules), the applicable records are updated.

## T\_DRY

## V/(P)

The time limit for using a dry component is saved for each part type (part barcode) in the T\_DRY table.  
No table is created from non-dry components.

Row Name	PK	Data Type	Max Length	Default	Explanation
DID	O	VARCHAR2/V ARCHAR	64		Unique character string to identify the part. In the case of dry components, a link is established with the DIDID for the T_DID.
DryStatus		NUMBER/NUMERIC	4	0	Indicates the dry component open status. 0: Unopened parts 1: Stored in dry oven 2: Stored in dry box 3: Currently used (Performing floor life count.)
MBBOutTime		DATE/DATETIME		Null	Indicates the length of time the dry components have been opened, the length of time they have been stored in the dry box or oven, and the amount of time they have been removed from the dry box or oven.  <b>This value is recorded in Greenwich Mean Time (GMT).</b>
RemainFloorLife		NUMBER/NUMERIC	9	-1	Indicates the length of time (min.) until rebaking.  The count down is stopped when stored in the dry box.  This time is reset to the specified floor life time when baked.  When set to "-1", the parts are determined to be unopened or non-dry components. Default: -1
BakeCount		NUMBER/NUMERIC	4	0	Records the number of times baking is performed.  This value is "0" when the dry components are unopened.
RemainBakeTime		NUMBER/NUMERIC	9	0	Displays the amount of time until baking is complete.  The item is set when the part enters the dry oven and set to "-1" when the part leaves

Row Name	PK	Data Type	Max. Length	Default	Explanation
					<p>the oven</p> <p>If a part is removed before baking is completed, this item is not cleared.</p>
RemainBoxLife		NUMBER/NUMERIC	9	-1	<p>Indicates the box life remaining until next bake is required.</p> <p>The countdown is paused for all times except being stored in a dry box.</p> <p>Reset by the specified box life when baking is performed.</p> <p>-1: No count or judged not to be a dry component.</p> <p>Default: -1</p>

## UnwantedLot

## V/(P)

The registered UnwantedLot relationship is stored in the UnwantedLot table.

By making this setting, the determination method will differ depending on the SystemInfo.VerifyCheckMode. Furthermore, OR conditions apply when there are multiple records.

Row Name	PK	Data Type	Max. Length	Default	Explanation
UnwantedID	O	NUMBER/NUMERIC	9		<p>Unwanted lot key</p> <p>The system automatically makes this setting using an uniquely identifiable integer.</p>
AvailableFlag		NUMBER/NUMERIC	4	Null	<p>Sets whether to enable or disable the Unwanted lot.</p> <p>0: Disable 1: Enable</p>
BarcData1		VARCHAR2/VARCHAR	64	Null	<p>UnwantedLot specification data</p> <p>Specifies the starting barcode when specifying a range.</p> <p>It is possible to use a wildcard when only one barcode is specified.</p>
BarcData2		VARCHAR2/VARCHAR	64	Null	<p>UnwantedLot specification data</p> <p>Specifies the last barcode when specifying a range.</p> <p>This is set to null when only one barcode is specified.</p>
BarcData3		VARCHAR2/VARCHAR	64	Null	<p>Stores the lane.</p> <p>This value only applies when job blocking has been registered.</p> <p>In all other cases, this value is set to "-1".</p> <p>0: Not specified 1: Lane 1 2: Lane 2 3: Lane 3</p>
BarcData4		VARCHAR2/VARCHAR	64	Null	<p>When job blocking is used, this is the job name. When not using job blocking, this value is set to Null. (Current as at V3.20)</p> <p>Wildcards may be used for this value.</p>
BarcData5		VARCHAR2/VARCHAR	64	Null	<p>When job blocking is used, this is the revision name. When not using job</p>

Row Name	PK	Data Type	Max. Length	Default	Explanation
					blocking, this value is set to Null. (Current as at V3.20) Wildcards may be used for this value.
BarcData6		VARCHAR2/ VARCHAR	64	Null	When job blocking is used, this is the side of the panel used for placement. When not using job blocking, this value is set to Null. (Current to V3.20) Null: Not specified _T: Top side B: Bottom side
Target		VARCHAR2/ VARCHAR	64	Null	Specifies the MetaID. (See <a href="#">MetaID</a> .) DID, PanelID, PartNumber etc.
OperatorName		VARCHAR2/ VARCHAR	64	Null	Registered user
RegTime		Date		Null	Unwanted Lot registration date and time

## UnwantedTrace

## V/(P)

UnwantedLot history discovered in the line is stored in the UnwantedTrace table.

This value is recorded if a prohibited target is discovered when an Unwanted Lot search is performed by each application.

Row Name	PK	Data Type	Max. Length	Default	Explanation
RegTime	O	Date			Unwanted Lot discovery date and time
McID	O	NUMBER/N UMERIC	4	0	Camera and machine ID found in Unwanted Lot
Lane	O	NUMBER/N UMERIC	4	0	Indicates the lane.  A triple lane exists when using the NXT. PCC and VME machines have no lanes and therefore this is fixed at single lane.  This is also set to single lane in the case of shuttle conveyors.  (In cases when it is possible to determine the lane at which conveyance is prohibited, this setting is used to record that lane.) 0: Single lane (Default) 1: Double lane Lane1 Triple lane Lane1 2: Double lane Lane2 Triple lane Lane2 3: Shuttle (Both lanes) 4: Triple lane Lane3  This is set to -1 for information unrelated to lanes.
BarcData		VARCHAR2/ VARCHAR	64		Data relevant to the UnwantedLot
BarcData2		VARCHAR2/ VARCHAR	64	Null	Data relevant to the UnwantedLot. This value is set to Null for data relevant for

Row Name	PK	Data Type	Max. Length	Default	Explanation
					the panel. In the case of a job, this value is stored as <b>Job Name + Placement Side + Revision.</b>
BlockMode		NUMBER/N UMERIC	4	Null	Records whether target was stopped when UnwantedLot is discovered during production. 1: Warning (Awaits RESET switch.) 2: Stop (Stops operation completely.)
Target		VARCHAR2 /VARCHAR	64	Null	Specifies the MetaID. ( <a href="#">MetaID</a> ) DID, PanelID, PartNumber etc.
enableTime		Date		Null	Date and time Warning was cleared.
enableName		VARCHAR2 /VARCHAR	64	Null	User who cleared (enabled) Warning

## Database Constant List

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Below is a list of data that is preset in the database.

Please note that this data is subject to change without prior notice when upgrading the database or application version.

## ApplicationMaster

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Row	APPLICATIONID	APPLICATIONNAME
Constant	1	KIT Server
	2	Kit Manager
	3	External Changeover
	4	KIT Barcode Printer
	5	Kit Line Configuration
	6	Profiler Server
	7	Fujitrax WEB
	8	KIT Database Wizard
	10	Kit Handy
	12	Advanced Maintenance
	13	FLP
	14	FLP Setup Tool
	15	C/C Plug-in
	16	Panel Tracker
	17	Central Server
	18	Restriction Editor
	19	System Monitor
	21	Profiler Central Server
	22	FLP Profiler
	23	Profiler Backup Service
	24	Profiler Backup Setting
	25	Central Server Setting
	26	Panel Tracker Setting
	27	Machine Database Wizard

Row	APPLICATIONID	APPLICATIONNAME
	30	FCS Information Provider
	33	Oracle9.2.0 Silent Installer
	36	Advanced Parts Management
	37	Kitting Stand
	39	Nexim Database Update Wizard
	40	Kitting Stand Settings
	41	Operator Trace Exporter
	43	Data Transaction Server
	44	Data Transaction Server Tool
	45	Oracle 10.2.0 Silent Installer
	48	Kit Handy for PC
	55	Verifier Client Service
	56	License Server
	57	License Client Service
	58	License Settings
	59	KIT Database Wizard for SQL Server
	60	Nexim Database Update Wizard for SQL Server
	61	Parts Navigation Service
	62	Parts Navigation Service Setting
	63	Parts Navigation
	64	Schedule Manager
	65	Schedule Editer
	66	Adviser Server
	67	Workflow Server
	68	Workflow Builder
	69	Workflow Communicator
	.7	SPC Monitor
	71	Adviser Line Configuration
	72	Adviser Assist
	73	Adviser Database Wizard
	74	Central Server Lite
	75	Central Server Lite Settings
	76	KIT Line Configuration Lite
	77	Host Interface Setting Tool
	78	Adviser Setting Tool
	79	Verifier Client Service Tool
	80	Advanced Parts Management Settings
	81	Board ID Import Tool
	82	Traceability File Output Tool
	83	Oracle 11.2.0 Silent Installer
	84	Maintenance Center Server
	85	Data Transfer Tool
	86	Reserved
	87	Maintenance Center Server Settings

## BULKCASESPEC

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Row name	FBTYPE	FBSTYPE	UNIT	TANKCAPACIT Y	CASECAPACIT Y	SUBTANKCAPACI TY
Fixed value	176	1	KTBA	800000	70000	0
	176	2	KTBB	400000	20000	0
	176	3	KTBC	100000	5000	0
	176	257	KTBA	800000	70000	0
	176	258	KTBB	400000	20000	0
	176	259	KTBC	100000	5000	0

## NXT/AIM/AIMEX slot numbers and part supply units

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The following table shows the relationship between the slot numbers reported from the NXT/AIM/AIMEX and the various part supply units.

Part supply unit	Slot number range
Feeder	1 ~ 99
Tray-L	101 ~ 199
Tray-MA	201 ~ 299
Tray-MB	301 ~ 399
Tray feeder-MA	401 ~ 499
Tray feeder-MB	501 ~ 599
Tray feeder-MC	601 ~ 699
Tray feeder-LA	701 ~ 799
Tray feeder-LB	801 ~ 899
Tray unit-LTA	901 ~ 924
Tray unit-LTB	925 ~ 948
Tray unit-LTCA	1001 ~ 1012
Tray unit-LTCB	1013 ~ 1024

## Device Status Definition

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Denotes the definition of the device status indicated by the device status.

This value is used for OperatorTrace, T\_LOC and T\_ID.

This value is also used for the status of the Status Priority.

Device status		Meaning
-1	Unset	No device check
0	SetOK	Device check is ok
1	Tape E	Parts out limit
2	Parts E	Parts out
3	Next D	Alternate device parts out
4	Vision	Vision processing error
5	Pickup	Pickup error
6	No Feeder	Feeder not set
7	Miss Feeder	Incorrect feeder type
8	No ID	No data for feeder and part combination
9	Miss D	Incorrect part type
10	Pre-SetOK	Quick verification or external changeover check is ok
11	Manual Permission	Manual permission is ok
12	Not Used	Unused device
13	NG Feeder	Feeder for maintenance
14	Splicing Warning	Splicing advance warning occurs
15	Parts Out Warning	Parts out advance warning occurs
16	Splicing Unset	Tape connected without splicing check
17	Remove Feeder	Feeder can be removed
19	Incorrect tray	Tray added without tray resupply notice
20	Parts Block	Parts prohibited for use with the parts blocking function
21	Lighting	Not matching lighting class

## Table Update Timing

The following table has the timing information for when each table is updated. (The "●" mark indicates that the record is updated)

		Rkey	Placement	PanelGroupTrace	PcbTrace	Dkey	DeviceTrace	BlockInfo	AVLList	Additional comparison function	Operator trace	Parts navigation information (mc)	Program information	Traceability information
Preparation	Part master data is registered in Kit Manager													
	A feeder is registered in Kit Manager	●												
	Reel parts are registered in Kit Manager				●									
	Tray parts are registered in Kit Manager			●		●								
	Part master data is edited in Kit Manager						●							
	A feeder is edited in Kit Manager	●												
	Reel parts are edited in Kit Manager				●									
	Tray parts are edited in Kit Manager			●			●							
	Part master data is deleted in Kit Manager							●						
	A feeder is deleted in Kit Manager	●												
Parts are supplied	Reel parts are deleted in Kit Manager	●	●	●	●	●								
	Tray parts are deleted in Kit Manager	●	●	●	●	●	●							
	Jobs are changed	●							●				●	
	A feeder is quick verified	●	●	●	●	●							●	
	Trays are verified						●						●	
	A feeder is set in a machine (when the feeder ID is read)	●							●			●	●	
	Splicing is performed			●	●							●	●	

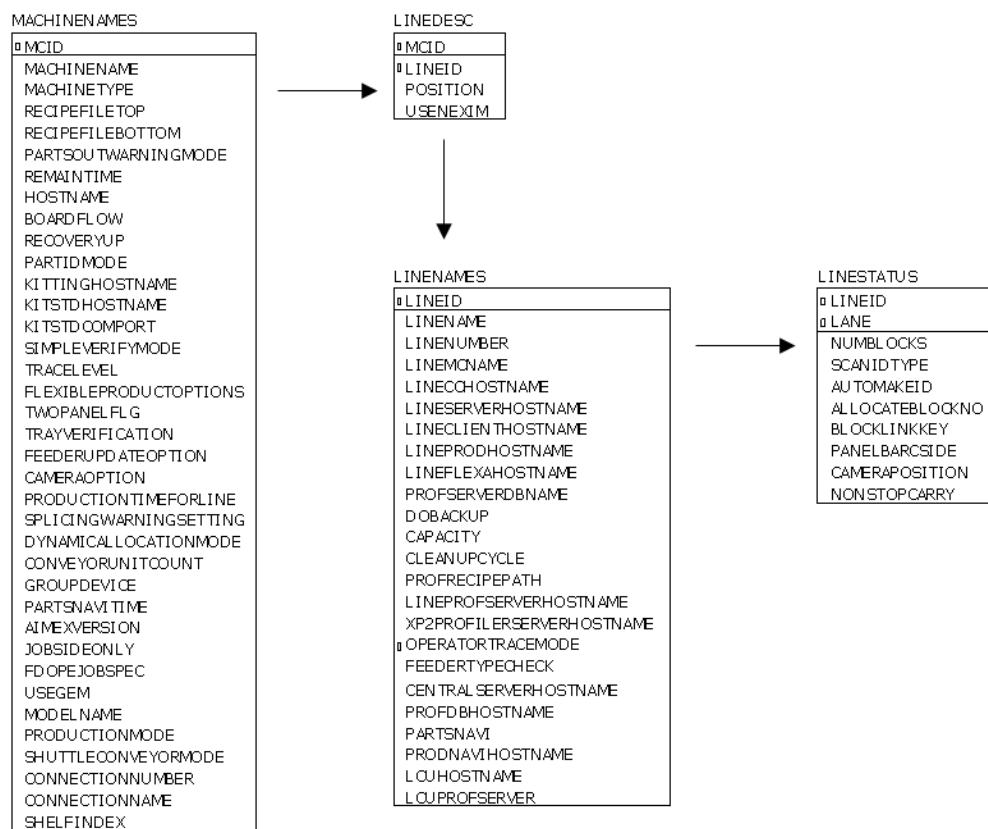
Preparing for next production	External verification is performed in External Changeover		●		●	Note 1					●	●				
During production	Pickup related error occurs	●	●								●					
	Feeder status changed															
Production of one panel completed	Updating of the remaining quantity of parts is performed from the machine	●			●						●					
	Traceability information is recorded											●	●	●	●	● *2. ● *2.

Note 1: When using automatic DID registration mode

Note 2: When the [Trace Level] setting for the line in the Kit line configuration is "Normal" or higher.

## Table Link Specifications

### Line Configuration Relationship



Machine related data is saved in the MachineNames table.

The machine arrangement order is defined in the LineDesc table, and is linked by the MachineNames table, McId field, and the LineNames table LineId field.

Line related data is saved in the LineNames table.

The panel camera is also registered in the MachineNames table, and the panel cameras in the line and the machine allocation configuration are linked by the LineDesc table.

The line status related data is saved in the LineStatus table.

This relationship is established the moment the line configuration is registered.

#### Note:

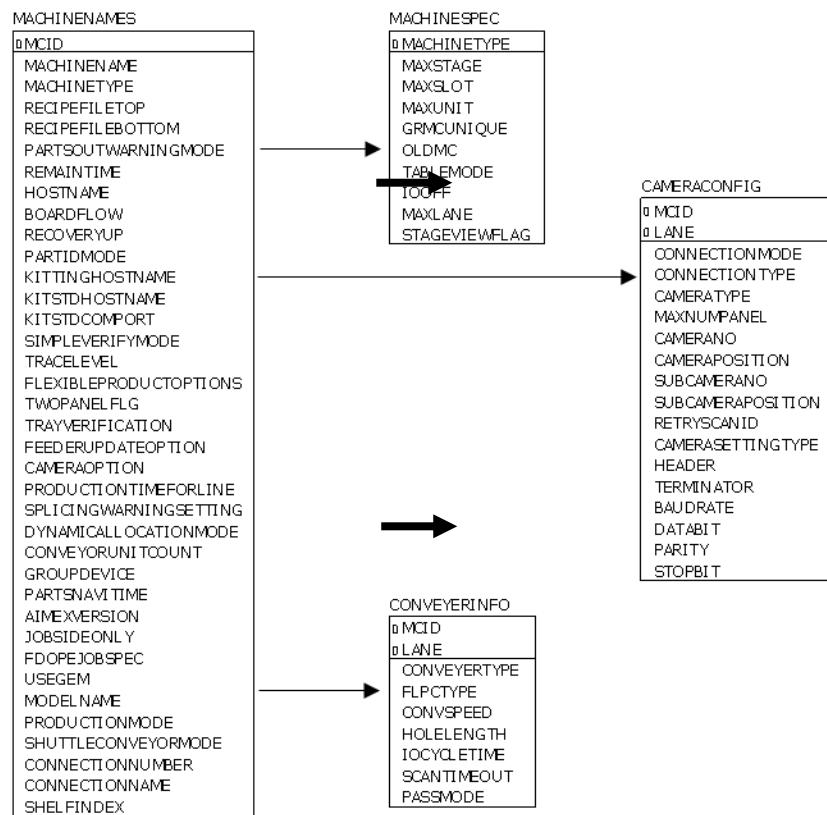
This data remains even after the line information is deleted.

The validity of the line information is determined as follows.

- The LineId is greater than 1.
- The LineNames and LineNumber are greater than 1.

If these conditions are not met, the line is determined to have been deleted, and even machines that do not exist on a valid line are determined to be invalid machines.

## Machine and Camera Relationship



Either the machine or camera is determined from the MachineNames table MachineType field.

The panel camera specifications are defined in the CameraConfig table. As a result, in the case of the panel camera, there is no link to the MachineType table.

The FLP conveyor specifications are defined in the ConveyerInfo table.

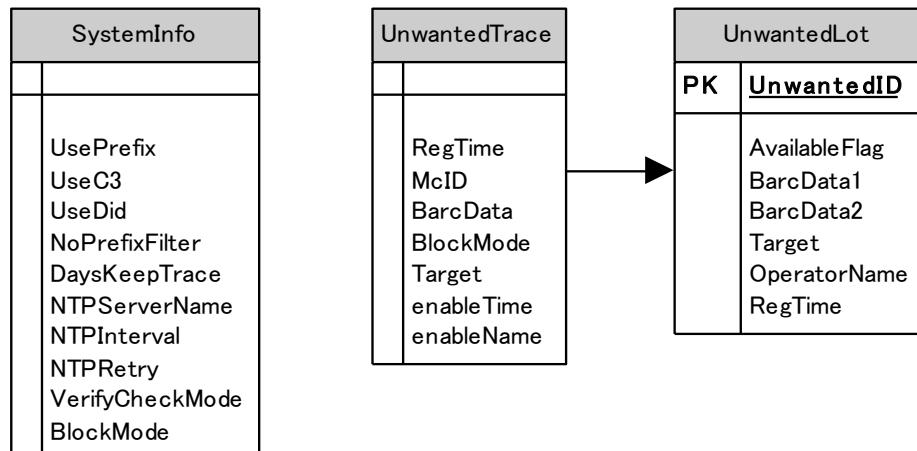
This information does not exist for cameras that do not use an FLP.

These are linked respectively by the MachineNames table McID field and CameraConfig table and McID field, and the MachineNames table McID field and ConveyerInfo table McID field.

In the case of machines, there is no link to the CameraConfig table and ConveyerInfo table.

This relationship is established the moment the machine and panel camera are registered.

## Unwanted Lot and Unwanted Lot Trace Relationship

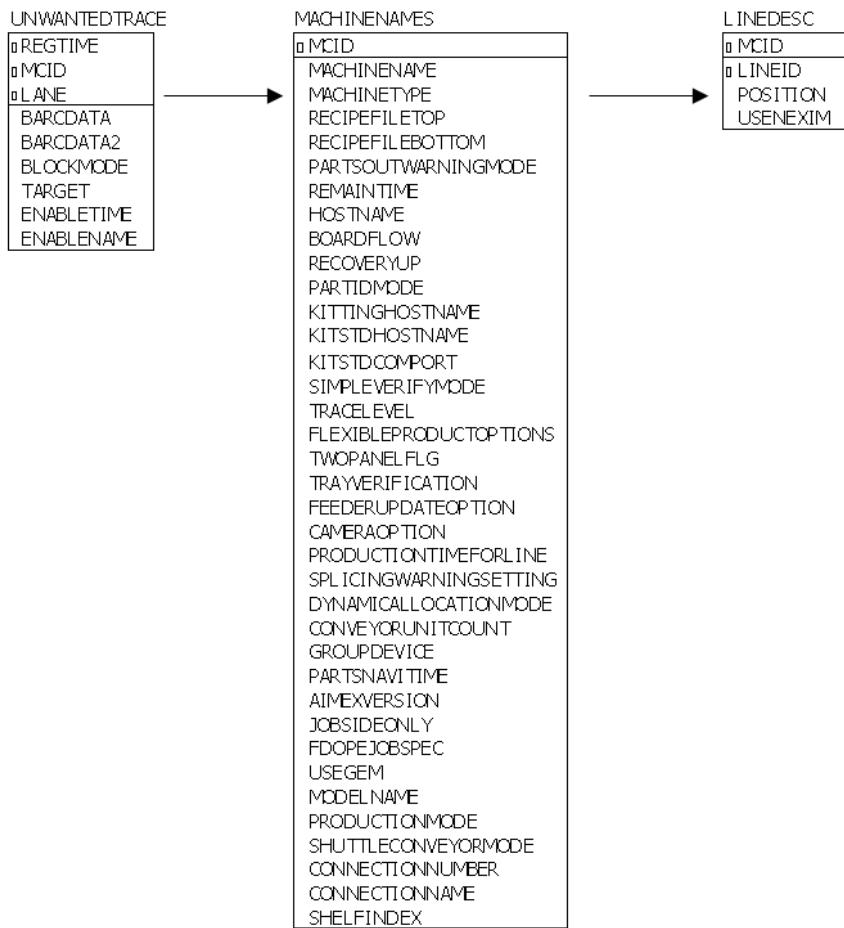


The **UnwantedLot** is used to store the relationship for lots for which use is to be prohibited or permitted (hereafter referred to as Unwanted Lot). Furthermore, the response to be taken when the system discovers that that lot was used on the line is determined by the value in the **SystemInfo** table **BlockMode** field.

This **UnwantedLot** table is created the moment an **UnwantedLot** is registered.

If the system discovers that the Unwanted Lot stored in this table was used on a line or machine, detailed information relating to the Unwanted Lot is added to the **UnwantedTrace** table. This detailed information includes trace information specifying when and on which machine the Unwanted Lot was used.

## Unwanted Lot History and Machine Relationship



The UnwantedTrace table is created the moment the system discovers that an Unwanted Lot is being used.

The UnwantedTrace table and MachineNames table McID fields are linked, and the machine or camera on which the Unwanted Lot was used is identified.

Identify the LineID from the McID in the LineDesc table in order to identify the line on which the Unwanted Lot was used.

This relationship is created the moment the system discovers the UnwantedLot.

## Trace Information Storage Period

Trace Information and Storage Period

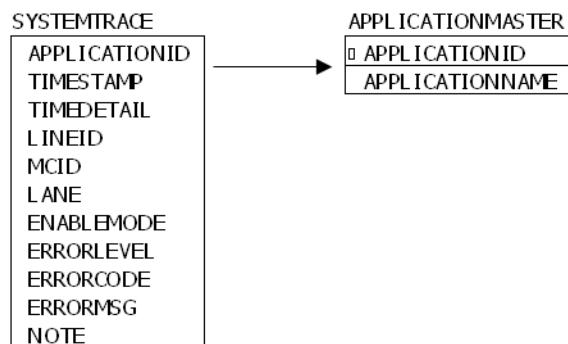
SystemInfo	SystemTrace	UnwantedTrace
UsePrefix UseC3 UseDid NoPrefixFilter DaysKeepTrace NTPServerName NTPInterval NTPRetry VerifyCheckMode BlockMode	ApplicationID TimeStamp LineID McID ErrorLevel ErrorCode ErrorMsg Note	RegTime McID BarcData BlockMode Target enableTime enableName

The storage period for output trace information is the storage period (no. of days) specified in the DaysKeepTrace field in the SystemInfo.

Older information is automatically deleted at the database.

## Trace Data and Application relationship

Trace data and application relationship

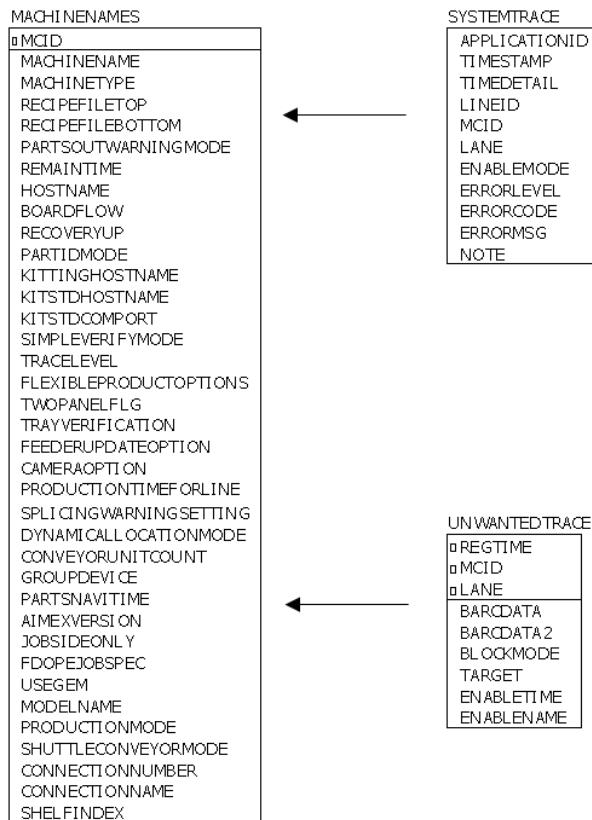


Trace data is output for each application with its own ID.

By doing this, it is possible to isolate the application for which a problem occurred from this trace data.

## Trace Information and Machine, Line Relationship

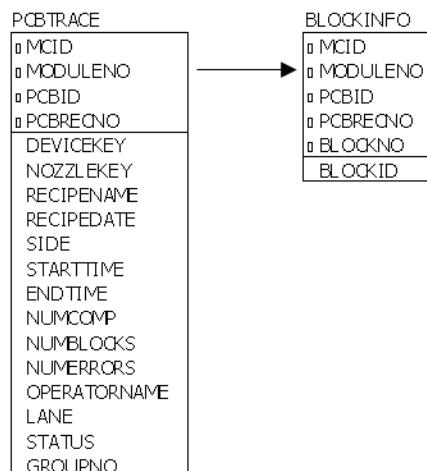
### Trace Information and Machine, Line Relationship



The MCID for machines or cameras for which problems occur is recorded when outputting trace information.

The machine, camera, or line for which the problem occurred can be identified from this information.

## Panel and Board Relationship

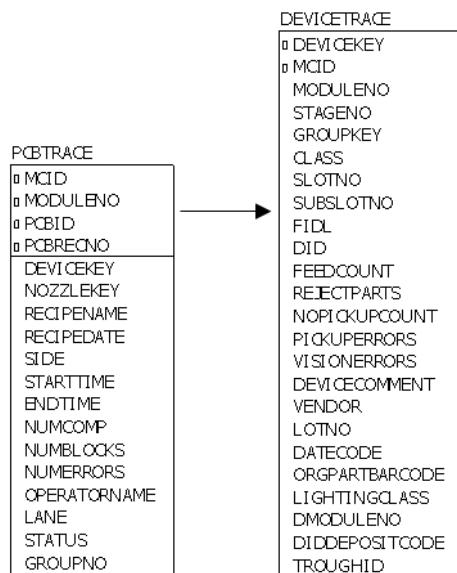


Information for individual panels for each machine is stored in the PcbTrace table.

This information is linked by the PcbTrace table PcbID field and BlockInfo table McID, PcbID, ModuleNo, and PcbRecNo fields.

The panel board information is saved in the BlockInfo table. (However, information is only stored for the block produced on that machine.)

## Panel and Device Relationship



Information for individual panels for each machine is stored in the PcbTrace table.

This information is linked by the PcbTrace table DeviceKey field and the DeviceTrace table DeviceKey field. (The McID and ModuleNo are also included.)

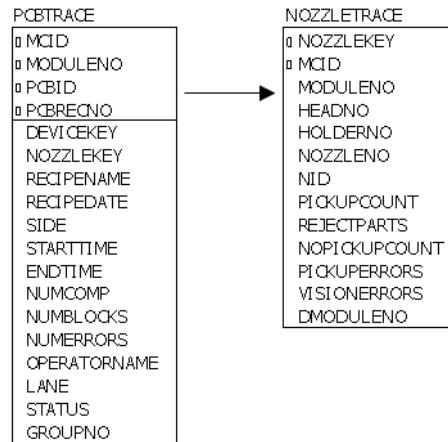
A single device key contains the list of devices (FIDL and DID association) used to produce one panel.

Ex.)

Step	Production Condition	Panel ID	DeviceKey
1	Devices 1, 2, and 3 are used to produce panel A.	A	DeviceKey1 is created (Device1,2,3)
2	The same devices are then used to produce panel B.	B	DeviceKey1 unchanged
3	Device 1 is changed to device 4 during production of panel C.	C	DeviceKey2 is created (Device1,2,3,4)
4	Panel D is then produced.	D	DeviceKey3 is created (Device2,3,4)

*Note: There are cases when the PcbTrace DeviceKey field is empty (Null).*

## Panel and Nozzle Relationship



Information for individual panels for each machine is stored in the PcbTrace table.

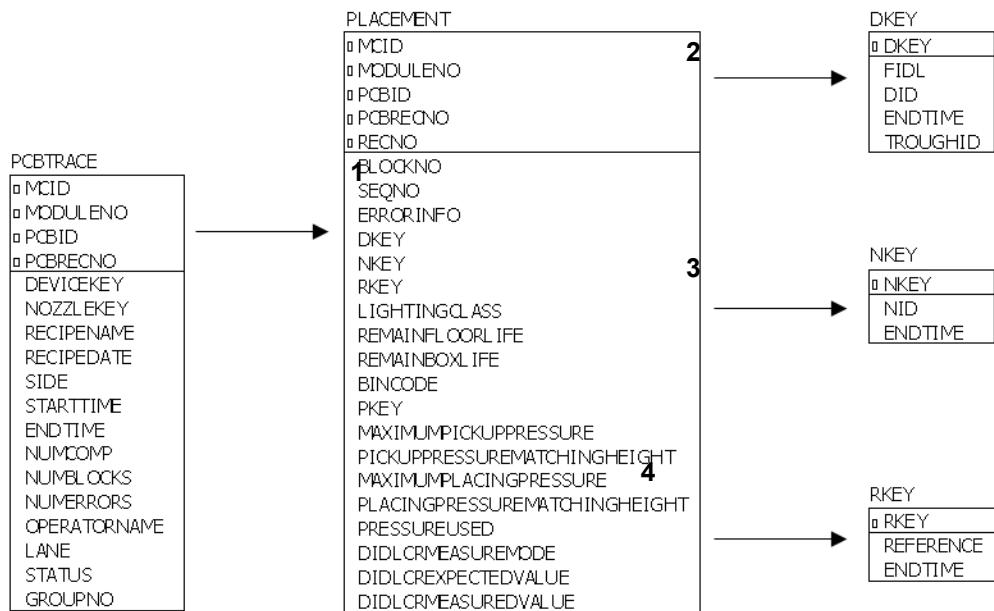
This information is linked by the PcbTrace table NozzleKey field and the NozzleTrace table NozzleKey field. (The McId and ModuleNo are also included.)

A single NozzleKey contains the list of nozzles used to produce one panel.

*Note: There are cases when the PcbTrace NozzleKey field is empty (Null).*

*Note: The NozzleTrace creation method is the same as that for the DeviceTrace.*

## Panel and Sequence Relationship



1. Information for individual panels for each machine is stored in the PcbTrace table.  
This information is linked by the PcbTrace table PcbID field and the Placement table McID, PcbID, ModuleNo, and PcbRecNo fields.  
Placement information for every part placed on the panel by the machine is stored in the Placement table.
  2. The Placement table Dkey field and Dkey Dkey field are linked.  
Each individual placed device (FIDL and DID association) in the linked Placement table is stored in the Dkey table.
  3. The Placement table Nkey field and Nkey table Nkey field are linked.  
The nozzle ID in the linked Placement table for each part placed is stored in the Nkey table.  
*Note: There are cases when the Placement Nkey field is empty (Null).*
  4. The Placement table Rkey field and Rkey table Rkey field are linked.  
The part reference designator in the linked Placement table for each part placed is stored in the Rkey table.
- Note: There are cases when the Placement Rkey field is empty (Null).*

## Table Structures

