ORACLE

Embedded Logic in Serial Numbers, Lot Codes, and Assembly Identifications (IDs)

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Overview

This document describes how information is embedded in Oracle serial numbers, lot codes, assembly identifications (IDs), and manufacturing tracking numbers (Mfg TNs). This information enables readers to quickly extract associated product information.

Audience

This document is for Product Engineering, Mechanical Engineering, Supplier Engineering (SE), Supply Management (SM), Enterprise Services, and Oracle suppliers.

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Introduction

This document describes the types of information that change owners must supply to the program coordinators for serial numbers, lot codes, assembly IDs, and Mfg TNs.

The class of the assembly determines whether it requires a serial number, lot code, assembly ID, or Mfg TNs, as follows:

1. Serial numbers are necessary for system-level products and subassemblies that have active electronic components.
2. Lot codes are necessary for strictly mechanical parts and assemblies.
3. Assembly IDs are necessary for serialized assemblies that have non-serialized components attached while promoting the existing serial number.
4. Mfg TNs are necessary for items like dual inline memory modules (DIMMs) which are serialized and are individually tracked, but which cannot or are not tracked by means of the serial number because the serial number is not readily accessible when is not functioning or installed in a functioning system.

For additional information, refer to the following:

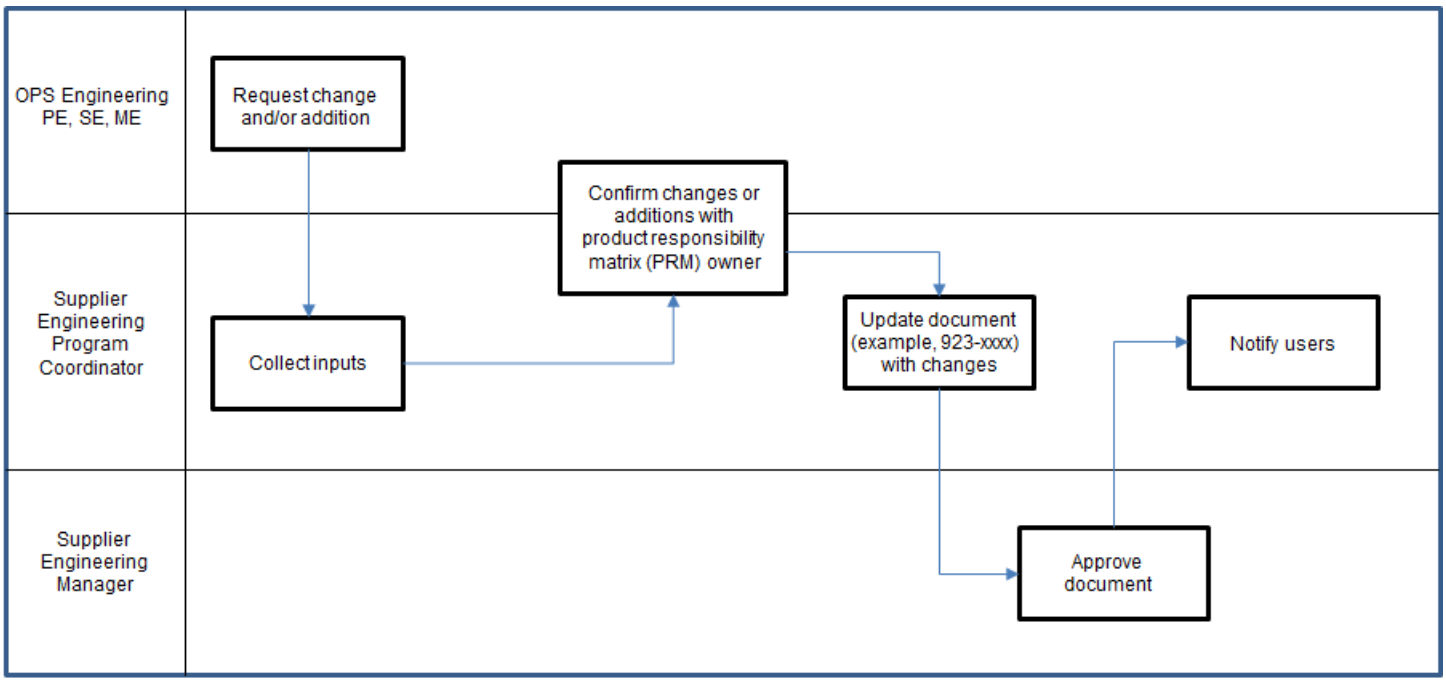
1. For parts that require serial numbers, or in other words are serial controlled, refer to *WWOPS Quality: Setting the Serial-Control Attribution in Agile PLM and GSI*, 923-3666-xx.
2. For date code markings of electronic components, refer to Standard EIA 476.

3. For the convention on numbering weeks in a year, refer to Standard ISO 8601.

1 Process Overview

When updates occur to a serial number barcode for all commodities, the change owner in Operations (Ops) Engineering and SM (that is, product engineers, mechanical engineers, supplier engineers, or supplier program managers) must notify the SE program coordinator (document owner). Refer to *Figure 1-1, Change Notification Process*, below.

Figure 1-1 Change Notification Process



2 Rules for Generating Serial Numbers, Assembly IDs, and Mfg TNs

2.1 Rules of Unique Identifier Creation

Serially controlled parts must be individually, uniquely, and unambiguously identifiable using only the part's serial number and/or an Oracle-assigned Mfg part number. This means that the serial numbers generated for parts which are assigned an Oracle Mfg part number must be formatted to meet the following criteria:

1. If the same part (number) is sourced from multiple suppliers, concurrently or consecutively, the product or commodity team must ensure that the serial numbers issued by any and all of these suppliers are not duplicately issued. Duplication is most easily avoided in one of the following two ways:

   a. Have suppliers use serial numbers of different lengths.

   b. Have suppliers use serial numbers of the same length and format, but embed a vendor number or code. See required and recommended formats in *Table 2-1, Required Formats of Serial Numbers,* on page 8.

2. The following types of fixed (non-ATO) assemblies must keep the serial number originally assigned to them during its entire lifetime even through rework and repair:

   - Building block for internal Mfg or customer ready systems (CRS)
   - Field replaceable unit (FRU) or serviceable item
   - Electromechanical assembly
   - Printed-circuit assembly (PCA)
   - Assembly below FRU level

3. A newly manufactured part cannot be issued a serial number or Mfg TN that was previously used on any superseded version of that same part even if the superseding version has a different part number. Only when the superseded version cannot be economically reworked to the latest version, may the serial numbers be re-issued. Embedding of a year and week code (YYWW) prevents a superseded part from being reworked and having the same serial number as a new part.

NOTE 1: Elimination of dash levels in Oracle part numbers can result in parts that are reworked or repaired to an entirely new part number.

4. Packaged spare parts must use and promote the serial number of the service item within the package or assembly, except where more than one serialized part is present, such as within P-kits and DIMM kits.

5. Do not include lower-case alphabetic characters (a - z) to enable the identifier to be encoded in a Code 39 barcode, which can only encode capital letters.

6. Avoid using characters I, O, Q, S, and Z to prevent misinterpretation in human-readable form as numbers 1, 0, 0, 5, and 2 respectively, except when it is apparent that all characters in the string or substring are alphabetic.

2.2 Serial Numbers

Table 2-1, Required Formats of Serial Numbers, on page 8, defines serial numbers which best help Oracle meet its need of keeping records unique in its data and tracking systems. Definition of variable and fixed values are defined in *Table 2-4, Definition of Fixed Characters*, on page 10, and *Table 2-5, Definition of Variable Characters,* on page 10, respectively.

NOTE 2: FRUs, customer replaceable units (CRUs), or subassemblies which currently use Type S4 serial numbers must switch to using Type S6 when these assemblies are assigned non-significant part numbers. Type S5 should only be used when the supplier does not have a GSI Vendor Number (VVVVVV). Non-significant forms of part numbers are defined in *Corp: Part Number, Revision, and Interchangeability Conventions for Orderable and Manufacturing Items,* 990-1241-xx.

2.2.1 L10/L11/FRU Serial Numbers

L10, L11, and factory generated FRU serial numbers must use STANDARD 10-digit format as shown in Table 2-1 below. Previous product type codes (X) are void at effectivity date and reduced to 3 options.

Table 2-1 Required Formats of Serial Numbers

Assembly Level	*Product Line*	*Design Owner*	*ID Type*	*Format* (Fixed characters in **bold**)	*Characters*	*Part Number*
System or Multi-System Product	Standard[1]	Oracle, Joint Design Mfg (JDM)	S1	YYWWPPXSSS PP=Unique factory Code X=Product Type: 0= ODA-HA or FRU generated 1= L10 Product 8= L11 Rack Product	10	Any
	Advanced Product Line (APL)	Any	S2	PPMYYWWSSS	10	Any
	Any, except APL	Original Equipment Manufacturer (OEM), Original Design Manufacturer (ODM)	S3	Recommended to contain: YYWW	6 - 25	Any
FRU, CRU, or Subassembly	Standard[1]	Oracle, JDM	S4	VVVVFFF-YYWWXXSSSS	18	Significant
			S5	**4A**JJJJF.YYWWXXSSSSwhen no VVVVVV assigned	18	Non-Significant
			S6	VVVVVVF+YYWWXXSSSS or VVVVVVF-YYWWXXSSSS	18	

[1] Due to limitations in MES and Cloud Manufacturing, internal manufacturing locations have been granted an exception to create non-standard serial numbers. Except for APL systems, all make items manufacturing in internal manufacturing orgs use a 10-character serial number not containing year (YY) or week (WW) codes.

	Fujitsu Manufactured parts for OPL DC and FF	Any	S7	PPYYWWSSSS	10	Any
	Any other	OEM, ODM	S8	Recommended to contain: YYWW	6 - 25	Any

2.3 Assembly IDs

An assembly ID identifies where and when non-serialized parts are added to a serialized assembly. It is most often used to identify the supplier that attaches brackets and/or plates to hard-disk drives. In these cases the serial number of the drive is promoted to also identify the bracketed level with the same serial number. Oracle requires using one of the formats of assembly ID defined in *Table 2-2, Required Formats of Assembly IDs*, below.

Table 2-2 Required Formats of Assembly IDs

Assembly Level	*Product Line*	*Design Owner*	*ID Type*	*Format* (Fixed characters in **bold**)	*Characters*	*Part Number*
FRU, CRU, or Subassembly	Any	Oracle, JDM	A1	VVVVFFF-YYWW	10	Significant
			A2	**4A**JJJJF.YYWW when no VVVVVV assigned	10	Non-Significant
			A3	VVVVVVF+YYWW or VVVVVVF-YYWW	10	

2.4 Mfg TNs

A Mfg TN identifies serialized parts that have a serial number programmed into the part but not visible in human-readable or bar-coded forms on a physical label. It is most often used to identify DIMMs that must be tracked individually. Oracle requires using one of the formats of Assembly ID defined in *Table 2-3, Required Formats of Mfg TNs*, below.

The required values of the multi-use code (XX) are defined in *Table 11-6, XX Code Definitions*, on page 51.

NOTE 3: Starting with DDR3 and upcoming technologies, effective DIMM date code WW1340, we no longer require Mfg TN for Hynix and Samsung. We will be scanning both vendors 2D bar code label and utilize this information. Refer to *Section 11.1.5* for 2D bar code details.

Table 2-3 Required Formats of Mfg TNs

Assembly Level	*Product Line*	*Design Owner*	*ID Type*	*Format* (Fixed characters in **bold**)	*Characters*	*Part Number*
FRU, CRU, or Subassembly	Any	Oracle, JDM	M1	VVVVFFF-YYWWXXSSSS	18	Significant
			M2	**4A**JJJJF.YYWWXXSSSS when no VVVVVV assigned	18	Non-Significant
			M3	VVVVVVF+YYWWXXSSSS or VVVVVVF-YYWWXXSSSS	18	

2.5 Definition of Fixed and Variable Characters

Table 2-4 Definition of Fixed Characters

Human-Readable Character(s)	***Position***	***Used in ID Type***	***Part Number Format***	***Fixed character(s) indicates that...***
4A	1st and 2nd characters from left	S5 A2 M2	Non-significant	Embedded manufacturer's code comes from *JEDEC JEP 106*
- (dash)	8th character from left	S4 A1 M1	Significant	- Embedded supplier code comes from *Oracle 10.7 ERP* - Factory code populates the three positions immediately to the left
		S6 A3 M3	Non-significant	- Embedded vendor number comes from *GSI EBS* - Short factory code populates the first position immediately to the left
. (dot)	8th character from left	S5 A2 M2	Non-significant	- Embedded manufacturer's code comes from *JEDEC JEP 106* - Short factory code populates the first position immediately to the left
+ (plus)	8th character from left	S6 A3 M3	Non-significant	- Embedded vendor number comes from *GSI EBS* - Short factory code populates the first position immediately to the left

Table 2-5 Definition of Variable Characters

Variable	***Definition***
F Short Factory Code	The single-character Short Factory Code — in combination with the Vendor Number or compressed *JEDEC JEP 106* Standard Manufacturer's Identification Code — uniquely identifies where an assembly was manufactured and/or labeled. This code can be numeric or alphabetic. It is created by the supplier, but Oracle SE or SM can request that a specific code be used. For example, `F` can represent a factory in Fremont, California.
FFF Factory Code	The three-character Factory Code — in combination with the Supplier Code — uniquely identifies where an assembly was manufactured and/or labeled. This code can be numeric or alphabetic. It is created by the supplier, but Oracle SE or SM can request that a specific code be used. For example, `FMT` can represent a factory in Fremont, California.
JJJJ Compressed JEDEC JEP 106 Standard Manufacturer's Identification Code	The four-character compressed form of the Standard Manufacturer's Identification Code from *JEDEC JEP 106* replaces an Oracle Vendor Number when the supplier is a subtier to which Oracle does not place purchase orders directly. The two left-most characters are equal to the number, in hexadecimal, of the *continuation codes* of the assigned identification code. The two right-most characters are the hexadecimal representation of the assigned code. For example: • Acorn Computers is assigned 0x7F5B. This code is hex 5B in bank two of *JEDEC JEP 106*, and uses *one* 7F continuation code. The compressed form of their manufacturer's code in hexadecimal characters is: 015B. • NeoMagic is assigned 0x7F7F7F92. This code is hex 92 in bank four of *JEDEC JEP 106*, and uses *three* 7F continuation codes. The compressed form of their manufacturer's code in

Variable	*Definition*
	hexadecimal characters is: 0392. Any supplier can apply for a code at http://www.jedec.org/standards-documents/id-codes-order-form.
M APL Model Code	Single-character APL Model Code indicates the shared product line to which an APL system belongs. The values for it are mutually agreed to by Oracle and Fujitsu. The following values are defined: • `D` for OPL DC1, DC2, DC3, DPF rack, and Power Cabinet • `F` for Form Factor systems • `L` for "low end" Niagara-based APL systems • `B` for I/O Box
PP System Mfg Plant Code	The two-character System Mfg Plant Code uniquely identifies the plant of manufacture for systems and multi-system products. It is comprised of two capital alphabetic characters that are assigned by Oracle Compliance Engineering. No two plants, even those for different EM's, can share the same code.
SSS or **SSSS** Sequence Number	Three- or four- character Sequence Number is a sequentially issued string of characters assigned to items manufactured in a given factory. It is three or four characters long and padded with leading zeros if necessary. It can be numeric, hexadecimal, alphanumeric, or alphabetic. • The value *SSS* (or the combined value *XSSS*) must be unique for a system or multi-system product for the period of the Mfg week, WW. • The value *SSSS* (or the combined value *XXSSSS*) must be unique through the production life of an assembly regardless of changes to its revision level, dash level or part number. Unlike a system serial number, the sequence number embedded into a Type S4, S5, and S6 serial numbers must not reset each week.
VVVV 10.7 ERP Supplier Code	The 10.7 Enterprise Resource Planning (ERP) Supplier Code is assigned by Oracle to uniquely identify the supplier to whom purchase orders are placed prior to the implementation of GSI. It is comprised of four or fewer numeric digits and is padded with leading zeros if necessary to be four digits when embedded into a Serial Number, Assembly ID, or Mfg TN. The supplier code can be found on the purchase orders issued to a supplier prior to the implementation of GSI.
VVVVVV GSI Vendor Number	The GSI Vendor Number is assigned by Oracle to uniquely identify the supplier to whom purchase orders are placed after the implementation of GSI. It is comprised of six or fewer numeric digits and is padded with leading zeros if necessary to be six digits when embedded into a Serial Number, Assembly ID, or Mfg TN. The vendor number can be found on the purchase orders issued to a supplier after the implementation of GSI.
WW Week Code	The 2-digit Week Code, according to ISO 8601, is the "ordinal number which identifies a calendar week within its calendar year according to the rule that the first calendar week of a year is that one which includes the first Thursday of that year and that the last calendar week of a calendar year is the week immediately preceding the first calendar week of the next calendar year."
X or **XX** Multi-Use Code	The Multi-Use Code records various information to meet the needs of the particular application. The content must be agreed upon by Oracle Commodity Engineer, Supplier Engineer, or Supplier Program Management (SPM). Historically, it was used when serializing display devices to encode its size and type. It can also be used to encode the following information: • Additional sequence (S) characters replacing one or both of the X or XX characters • Day of the week of the manufacture • Model code • Manufacturer code Memory parts must use values for the Multi-Use Code from *Table 11-6, XX Code Definitions*, on page 51.
YY	The Year Code is equivalent to the right-most two digits of the Gregorian calendar year of the date of manufacture or issuance of a Serial Number, Assembly ID, or Mfg TN. See the definition of the

Variable	*Definition*
Year Code	Week Code above and the weekly calendar of date codes posted by year by the Electronics Industries Alliance.

3 9-Digit Serial Numbers, Lot Codes, and Assembly IDs

JDSU Serial Number Format and Decoder

This section details the JDSU serial number format requirements. The information is provided as a single, 9-digit barcode with human readable numbers and text. The first digit indicates the country of manufacture. For details on country code distribution, refer to *Table 3-1, Country of Manufacture – Codes,* below. The following three digits are the year and week of manufacture. The next two digits contain the product code. The last three digits represent the serialization number for that week in base 34 (1 to 10 and A to Z, except letter 'I' and 'Q'). See *Figure 3-1, Serial Number Format*, below.

NOTE 4: The product code is unique for each part number. It identifies any items unique to the automated testers, which test input or output (I/O), erasable programmable device (EEPROM), diagnostics, rate select or no rate select, and so on.

Figure 3-1 Serial Number Format

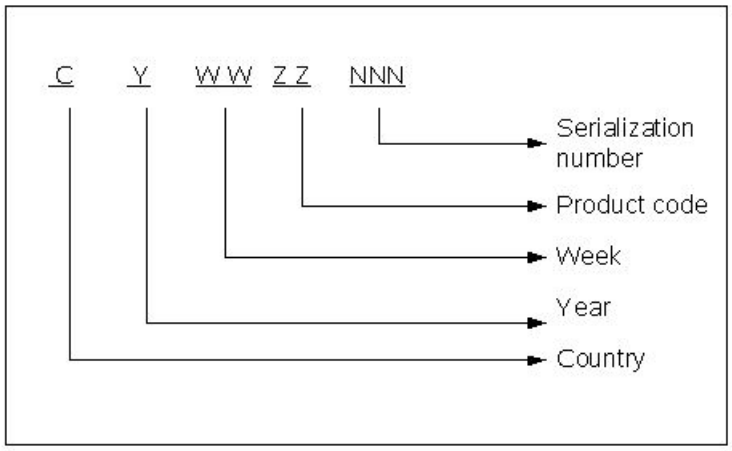


Table 3-1 Country of Manufacture – Codes

Code	*Country*
A	America
T	Thailand
C	China

4 10-Digit Serial Numbers, Lot Codes, and Assembly IDs

Removable Media (RM)

This section provides the serial number matrix for RM. For an RM serial number example, refer to *Figure 4-1, Example RM Label Information*, below. For the corresponding product matrices, refer to *Table 4-1, ADIC, Vendor Number 0001412, RM Matrix*, below, *Table 4-2, Hewlett Packard, Vendor Number 0118913, RM Matrix,* on page 14, *Table 4-3, Teac, Vendor Number 464808I, RM-ODD Matrix*, on page 14, *Table 4-4, Teac, Vendor Number 464808C, RM-ODD Matrix*, on page 15, *Table 4-5, Teac, Vendor Number 1713VJB, RM-ODD Matrix,* on page 15, *Table 4-6, TSST [Toshiba or Samsung], Vendor Number 0338017, RM-ODD Matrix*, on page 15, and *Table 4-7, Quantum SSG, Vendor Number 0122842, RM Matrix*, on page 16.

Figure 4-1 Example RM Label Information

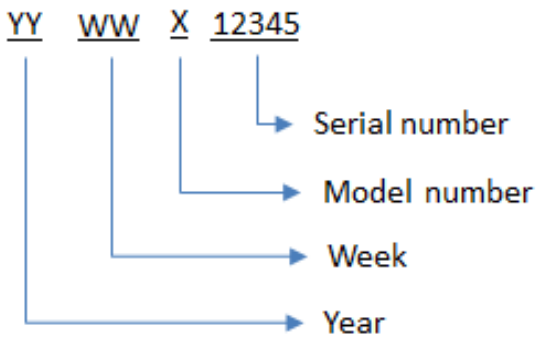


Table 4-1 ADIC, Vendor Number 0001412, RM Matrix

Oracle Serial Number Model Identifier (X)	*Mfg or Configuration Site*	*Model Description*	*Supplier Model Number*	*Oracle Product Part Number (X-Option)*	*Oracle Assembly Part Numbers*
A	Redmond	L7 DLT8K HVD	9-00229-01	595-6811-xx	380-0802-xx
E	Rotweill (BDT)	L8 LTO GenI LVD	9-00244-01	595-6858-xx	380-0817-xx

Table 4-2 Hewlett Packard, Vendor Number 0118913, RM Matrix

Oracle Serial Number Model Identifier (X)	***Mfg or Configuration Site***	***Model Description***	***Supplier Model Number***	***Oracle Product Part Number (X Option)***	***Oracle Manufacture Part Numbers***
A	US	L9 and L20	Not available (N/A)	All L9 and L20	All L9 and L20
B	Cork	L9 and L20	N/A	All L9 and L20	All L9 and L20
C	Philippines or Hungary	DDS4	C5683-006xx	595-5431-xx, 595-5432-xx, 595-6180-xx	390-0027-xx 390-0028-xx 390-0090-xx
F	Hungary	LTO Gen2 Desktop box	C7380-0062x	595-7147-xx	380-0914-xx
L	Philippines or Hungary	DDS3	C1537-006xx	595-4163-xx 595-5301-xx 595-4165-xx 595-4379-xx	370-2376-xx 370-2377-xx
U	N/A	DDS3 Autoloader	C5713-006xx	595-4167-xx	370-2379-xx 370-2380-xx
V	Hungary	DAT72 Desktop drive	C7439-00625	595-7384-xx	380-0993-xx
		DAT72 drive	C7438-0062x	595-7468-xx 595-7469-xx	380-1004-xx 380-1005-xx

Table 4-3 Teac, Vendor Number 464808I, RM-ODD Matrix

Oracle Serial Number Model Identifier (X)	***Mfg or Configuration Site***	***Model Description***	***Supplier Model Number***	***Oracle Product Part Number (X Option)***	***Oracle Manufacture Part Numbers***
A	Indonesia	GEN3 DVD SLOT RW SATA BLK	DVW28SSWZ3		7045772

Table 4-4 Teac, Vendor Number 464808C, RM-ODD Matrix

Oracle Serial Number Model Identifier (X)	***Mfg or Configuration Site***	***Model Description***	***Supplier Model Number***	***Oracle Product Part Number (X-Option)***	***Oracle Manufacture Part Numbers***
B	China	GEN4 DVD Tray Load RW SATA	DV-28S-AZ3		7071296
C	China	GEN5 DVD Tray Load RW SATA	DV-W28S-BZ3		7089963
D	China	GEN 6 DVD Tray Load RW SATA	DV-W28S-CZ3		7309891
E	China	GEN 7 DVD Tray Load RW SATA	DV-W28S-FZ3		7336333

Table 4-5 Teac, Vendor Number 1713VJB, RM-ODD Matrix

Oracle Serial Number Model Identifier (X)	*Mfg or Configuration Site*	*Model Description*	*Supplier Model Number*	*Oracle Product Part Number (X-Option)*	*Oracle Manufacture Part Numbers*
R	Indonesia	GEN2 DVD RW SATA DRIVE	DVW28SSVZ3		390-0486-xx

Table 4-6 TSST [Toshiba or Samsung], Vendor Number 0338017, RM-ODD Matrix

Oracle Serial Number Model Identifier (X)	*Mfg or Configuration Site*	*Model Description*	*Supplier Model Number*	*Oracle Product Part Number (X-Option)*	*Oracle Assembly Part Numbers*
A	Philippines	DVD-ROM, 12x	SD-M1711	595-5558-xx	390-0025-xx
B	Philippines	DVD-R/W Slim/slave	TS-L632D/SICH		390-0350-01
D	Philippines	DVD-ROM, 10x	SD-M1401	595-5558-xx	390-0025-xx
H	Philippines	DVD RW HH	TS-H552A		390-0231-01
K	Indonesia	HH Combo	TS-H492C		370-6463-01
L		DVD RW 8x Slim	TS-L532A		370-7078-02
L	Philippines	DVD-R/W Slim /slave	TS-L532U		371-0913-01
L	Philippines	DVD-R/W Slim	TS-L532U		390-0289-01
S			SD-M2612		390-4412-02
S	Philippines	DVD-ROM, 10x, Slim	C2512/C2612	N/A	390-4412-xx
S[2]			SD-M2732		390-4412-03
T	Indonesia	HH DVD ROM	TS-H352C		390-0287-01
T		DVD ROM, 16x	SD-M1712		390-0161-01
U	Philippines	DVD-R/W HH	TS-H552D		390-0290-01
V	China	DVD-ROM Slim	SD-C2732		390-4412-04
V	China	DVD-ROM Slim	SD-C2732		371-1789-01
V	Philippines	DVD-ROM Slim	TS-L462C/SIAF		390-0336-01
W	Philippines	DVD-ROM Slim	TS-L332A		390-0349-01
X	Philippines	DVD-R/W HH	TS-H652D		390-0346-01
Y	Philippines	DVD-R/W Slim	TS-L632D/SIAH		390-0345-01
Z	Indonesia	DVD-R/W Slim Slotload	TS-T632A		390-0337-01

Table 4-7 Quantum SSG, Vendor Number 0122842, RM Matrix

[2] Vendor number is 0515IMI.

Oracle Serial Number Model Identifier (X)	*Mfg or Configuration Site*	*Model Description*	*Supplier Model Number*	*Oracle Product Part Number (X-Option)*	*Oracle Assembly Part Numbers*
A	Mexico	L25 DLT HVD Base unit	6420010-01	595-6546-xx	380-0677-xx
B	Mexico	L25 LTO HVD base unit	6420010-02	595-6547-xx	380-0678-xx
C	Mexico	L100 LTO LVD base unit	6422100-03	595-6853-xx	380-0810-xx
D	Penang/Mexico	DLT8K HVD drive L25/L100	6420800-01	595-6550-xx	380-0681-xx
E	Mexico	L100 DLT HVD base unit	6422100-01	595-6548-xx	380-0679-xx
F	Mexico	L100 LTO HVD base unit	6422100-02	595-6549-xx	380-0680-xx
G	Penang/Blackbushe	LTO GenI LVD drive L100	6420800-04	595-6854-xx	380-0811-xx
H	Irvine	L25/L100 HVD Management card	6420805-01	595-6554-xx	383-0686-xx
I	Irvine	FC420 LVD Fibre channel card	6420807-01	595-6855-xx	380-0812-xx
J	Irvine	L25/L100 LVD/HVD Management card	6420805-02	595-7005-xx	380-0894-xx
K	Mexico	L25 LTO LVD base unit	6420010-04	595-7004-xx	380-0893-xx
L	Penang/ Blackbushe	LTO GenI HVD drive L25/L100	6420800-02	595-6552-xx	380-0683-xx
M	Mexico	L25 DLT LVD Base unit	6420010-03	595-6870-xx	380-0821-xx
N	Mexico	L100 DLT LVD base unit	6422100-04	595-6871-xx	380-0822-xx
P	Penang/Blackbushe	LTO GenII LVD drive L100	6420800-07	595-7003-xx	380-0892-xx
S	Penang/Mexico	SDLT220 HVD drive L25/L100	6420800-03	595-6551-xx	380-0682-xx
T	Penang/Mexico	SDLT320 LVD drive L25/L100	6420800-05	595-6869-xx	380-0820-xx
V	Penang/Mexico	SDLT600 LVD drive L25/L100	To be determined (TBD)	TBD	TBD
W	Irvine	Stacklink Common L25/L100	N/A	595-6803-xx	380-0797-xx
X	Irvine	Stacklink 2-L25	N/A	595-6558-xx	380-0689-xx
Y	Irvine	Stacklink 5 25/ L100	N/A	595-6559-xx	380-0690-xx
Z	Irvine	Stacklink 7-L25/ L100	N/A	595-6560-xx	380-0691-xx

5 11-Digit Serial Numbers, Lot Codes, and Assembly IDs

Host Bus Adapters (HBAs) (Supplier: LSI Logic)

There are two labels associated with HBAs from LSI Logic.

The first is an assembly or revision label showing the LSI part number and product revision level. The label has 11 human-readable numbers and text on top of a code 128 barcode. See *Table 5-1, LSI Logic HBA Number Breakdown,* below, and *Figure 5-1, LSI Logic HBA Assembly or Revision Label Information,* below.

The second label is a tracer number label which shows the board tracer number in 11 human-readable numbers and text on top of a code 128 barcode. The tracer number is in three parts: a letter indicating the Mfg site, six numbers composing the board serial number (in standard decimal format), and four characters representing the date code. Refer to *Table 5-2, LSI Logic HBA Tracer Number Label Breakdown,* on page 19, and *Figure 5-2, Example LSI Logic HBA Label Information*, on page 19.

Table 5-1 LSI Logic HBA Number Breakdown

Format	***Details***
Part number	10-digit LSI Logic part number

Figure 5-1 LSI Logic HBA Assembly or Revision Label Information

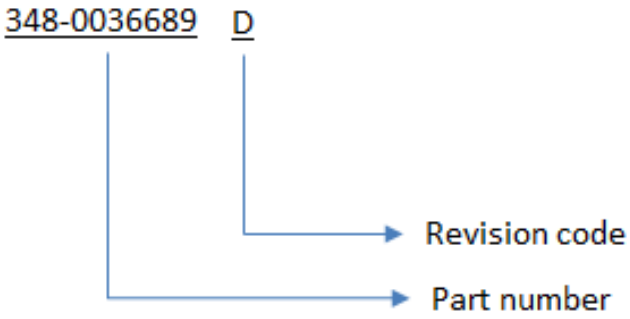


Table 5-2 LSI Logic HBA Tracer Number Label Breakdown

Format	***Details***
Mfg site code	Single letter supplier code (see *Table 5-3*, *LSI Logic HBA Mfg Site Codes*, below)
Serial number	6-digit serial number
Date code	Four digits that identify the year and week of manufacture

Figure 5-2 Example LSI Logic HBA Label Information

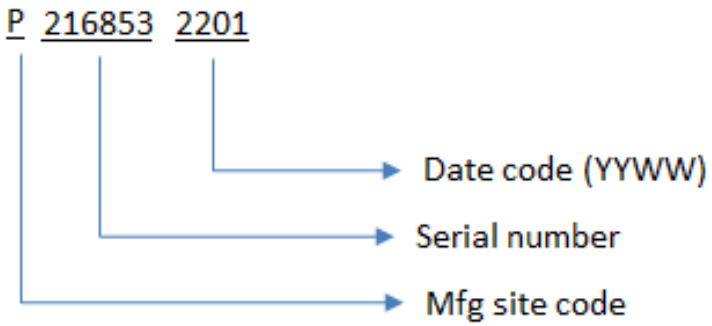


Table 5-3 LSI Logic HBA Mfg Site Codes

Manufacturer	***Code***
Sanmina, SCI Thailand	P
Sanmina, SCI Colorado, USA	C
Solectron Singapore	N
Polaris, Massachusetts, USA	L

6 12-Digit Serial Numbers, Lot Codes, and Assembly IDs

6.1 HBAs (Supplier: QLogic)

There are two labels associated with HBAs from QLogic.

The first label is an assembly or revision label showing the QLogic part number, customer code, and product revision level. It has 12 human-readable numbers and text on top of a code three of nine barcode. Refer to *Table 6-1, QLogic HBA Assembly or Revision Number Breakdown*, below and *Figure 6-1, Example QLogic HBA Assembly or Revision Label Information*, below.

The second label is a tracer number label showing the board tracer number in 13 human-readable numbers and text. Refer to *Table 6-2, QLogic HBA Tracer Number Label Breakdown*, on page 21, and *Figure 6-2, Example Qlogic HBA Tracer Number Label Information*, on page 21.

Table 6-1 QLogic HBA Assembly or Revision Number Breakdown

Format	***Details***
Part number	9-digit QLogic part number
Customer code	2-digit customer code
Revision code	Single-digit QLogic revision code

Figure 6-1 Example QLogic HBA Assembly or Revision Label Information

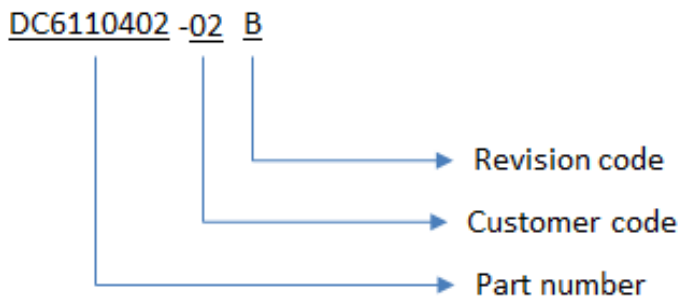


Table 6-2 QLogic HBA Tracer Number Label Breakdown

Format	***Details***
Supplier code	Single-letter supplier code (see *Table 6-3, Qlogic HBA Supplier Codes*, below)
Product code	Two-letter product code
Date code	Four digits that identify the year and week of manufacture
Serial number	QLogic serial number in Hexadecimal format

Figure 6-2 Example Qlogic HBA Tracer Number Label Information

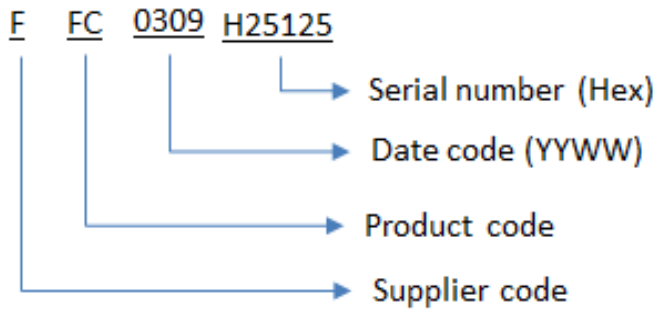


Table 6-3 Qlogic HBA Supplier Codes

Supplier	***Code***
Jabil, St. Petersburg, Florida	F
Jabil, Idaho	J
SMT Dynamics	T
ICCI	C
Victron	V

6.2 Small Form Factor Plugable (SFP) Gigabit Interface Converters (GBICs)

This section details the barcode label requirements for SFP GBICs. The information on the label is provided as a single, 12-digit barcode with human-readable numbers and text. The first letter is the Mfg site code. The following letter represents the year of manufacture. The next two digits indicate the week of manufacture. The next four digits indicate the part number. The remaining four digits are a sequential number (hexadecimal). Refer to *Table 6-4, SFP GBICs Serial Number Label Breakdown*, below and *Figure 6-3, Example SFP GBICs Serial Number Label Information*, below.

Table 6-4 SFP GBICs Serial Number Label Breakdown

Format	***Details***
Mfg site code	Single-letter supplier code (refer *Table 6-5, SFP GBICs Mfg Site Codes*, on page 23)
Year code	The last digit of the year of manufacture, where 1=2001, 2=2002, and 3=2003
Week code	Two digits that identify the week of manufacture (01-52)
Part number	Four digits representing the last four digits of the base card assembly part number
Sequential number (hexadecimal)	4-digit sequential number (First transceiver tested in the week = 0001, the second transceiver tested in the week = 0002, and so on)

Figure 6-3 Example SFP GBICs Serial Number Label Information

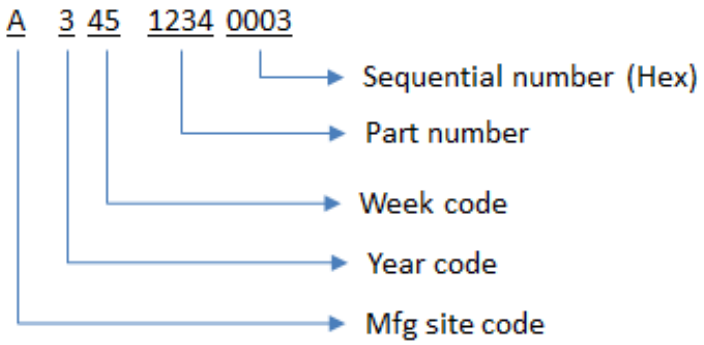


Table 6-5 SFP GBICs Mfg Site Codes

Manufacturer	***Code***
Celestica Monterrey	A
Kimball Reynosa	B
Pemstar	C
Rochester	R

6.3 GBICs

This section details the barcode label requirements for GBICs. The information on the label is provided as a single, 12-digit barcode with human-readable numbers and text. The first letter is the Mfg site code. The following letter represents the year of manufacture. The next two digits indicate the week of manufacture. The next four digits indicate the part number. The remaining four digits are a sequential number (hexadecimal). Refer *to Table 6-6, GBICs Serial Number Label Breakdown*, below, and *Figure 6-4, Example GBICs Serial Number Label Information*, on page 24.

Table 6-6 GBICs Serial Number Label Breakdown

Format	***Details***
Mfg site code	Single-letter supplier code (see *Table 6-7, GBICs Mfg Site Codes*, on page 24)
Year code	The last digit of the year of manufacture, where 1=2001, 2=2002, and 3=2003, and so on
Week code	Two digits that identify the week of manufacture (01-52)
Part number	Four digits representing the last four digits of the base card assembly part number
Sequential number (hexadecimal)	4-digit sequential number (First transceiver tested in the week = 0001, the second transceiver tested in the week = 0002, and so on)

Figure 6-4 Example GBICs Serial Number Label Information

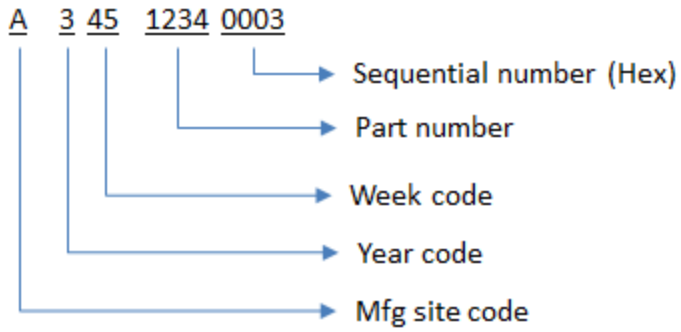


Table 6-7 GBICs Mfg Site Codes

Manufacturer	***Code***
Celestica Monterrey	A
Kimball Reynosa	B
Pemstar	C
Rochester	R

7 13-Digit Serial Numbers, Lot Codes, and Assembly IDs

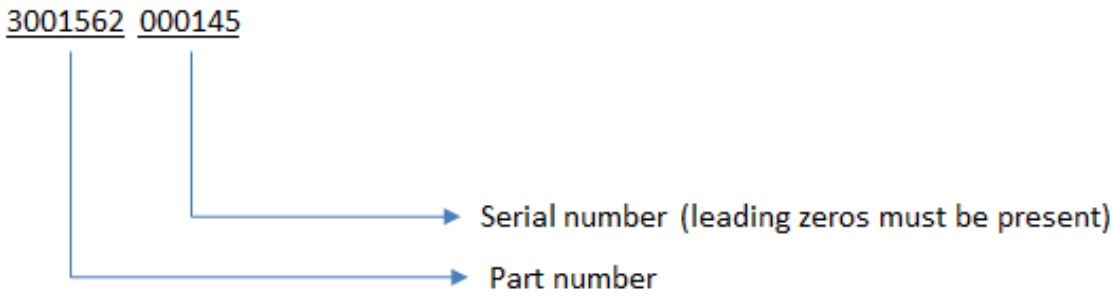
7.1 Power Supplies (DC/DC) (Type 1 Label)

This section details the barcode label requirements for Type 1 label power supplies. The information on the label is provided as a single, 13-digit barcode with human-readable numbers. The first seven digits are the part number. The remaining six digits are the serial number. See *Table 7-1, Power Supply (DC/DC) Serial Number Breakdown*, below, and *Figure 7-1, Example DC/DC Power Supply Label Information,* below.

Table 7-1 Power Supply (DC/DC) Serial Number Breakdown

Format	***Details***
Part number	Oracle's 7-digit part number
Serial number	6-digit serial number

Figure 7-1 Example DC/DC Power Supply Label Information



7.2 Smart Card Readers

This section details the barcode label requirements for smart card readers. The information on the label is provided as a single, 13-digit barcode with human-readable numbers. The first four digits are the product ID. The following four digits are the year and week of manufacture. The next digit is the vendor or manufacturer code. The remaining four digits are the serial number. See *Table 7-2, Smart Card Reader Serial Number Breakdown,* below, and *Figure 7-2, Example Smart Card Reader Label Information*, below.

Table 7-2 Smart Card Reader Serial Number Breakdown

Format	***Details***
Product ID	The first four digits are the product ID
Year and week of manufacture	The next four digits are the year and week of manufacture
Vendor or manufacturer code	The next single digit is the vendor or manufacturer code (see *Table 7-3*, *Smart Card Reader Vendor or Manufacturer Code Matrix*, on page 27)
Serial number	The last four digits are the serial number

Figure 7-2 Example Smart Card Reader Label Information

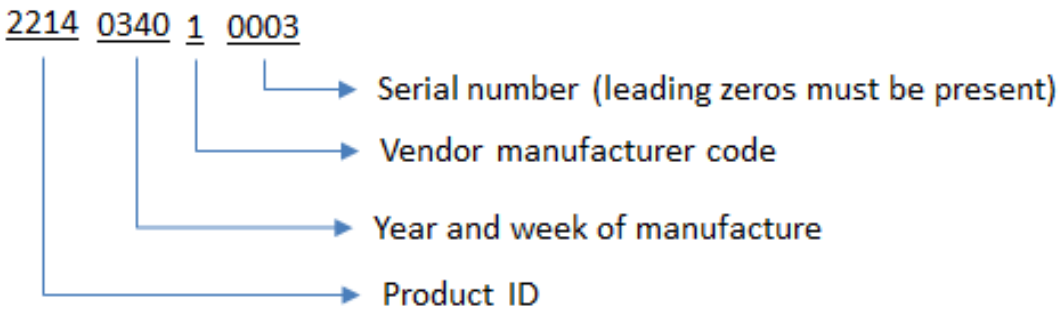


Table 7-3 Smart Card Reader Vendor or Manufacturer Code Matrix

Code Number	***Vendor or Manufacturer Code***
1	SCM Microsystems - Singapore
2	SCM Microsystems - Germany
3	SCM Microsystems - Taiwan
4	SCM Microsystems - China
5	RESERVE
6	SCM Microsystems - Malaysia
7	SCM Microsystems - China
8	SCM Microsystems - Danriver

7.3 Starcats

This section details the barcode label requirements for Starcats. To identify part vendors for Oracle part numbers with multiple vendors, locate the vendor-specific character code immediately following the 7-digit part number. Refer to *Table 7-4, Starcat Supplier Vendor Code Serial Number Breakdown*, below, and *Figure 7-3, Example Starcat Supplier Vendor Code Label Information*, on page 28.

Table 7-4 Starcat Supplier Vendor Code Serial Number Breakdown

Format	***Details***
Part number	Seven digits
Vendor-specific code	Single letter or number (see *Table 7-5, Vendor-Specific Codes*, on page 28)
Oracle build sequence number	Five digits (alpha or numeric)

Figure 7-3 Example Starcat Supplier Vendor Code Label Information

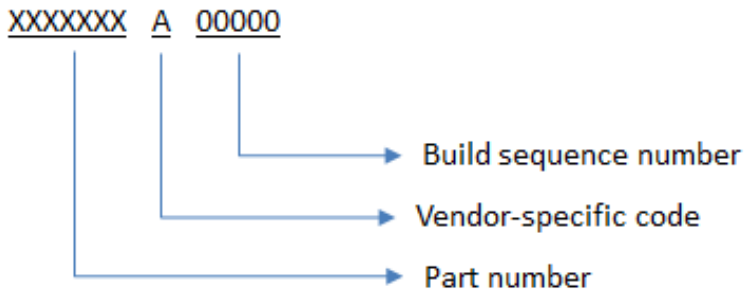


Table 7-5 Vendor-Specific Codes

Manufacturer	***Code***
EIT	B, C, D, E, or numeric
NMI	N or numeric
Sanmina - Lisburn	L
Sanmina - Westbrook	W or numeric
Shinei - Canada	K
Shinei - Singapore	S
Shinei - South Ockendon	U
Solectron - Charlotte	Y
Solectron - Penang	P

8 15-Digit Serial Numbers, Lot Codes, and Assembly IDs

8.1 Dynamic Random Access Memory (DRAM) Modules

This section details the barcode label requirements for DRAM. The information on the label is provided as a single, 15-digit barcode with human-readable numbers and text. The first seven digits are the Oracle part number. The eighth digit is the supplier code. The ninth digit is a code used by Memory SE for tracking changes to product, for example, different die revisions. The remaining six digits are the alphanumeric serial number. The combination of supplier, part number, and serial number must be unique. See *Table 8-1, DRAM Serial Number Breakdown*, below, and *Figure 8-1, Example DRAM Label Information,* below.

Table 8-1 DRAM Serial Number Breakdown

Format	***Details***
Part number	The first seven digits of the Oracle part number, without the dash roll
Vendor or manufacturer code	Single-digit supplier code (see *Table 8-2, DRAM Vendor or Manufacturer Code Matrix*, on page 30)
Change tracking identifier	Single-digit to be used when necessary by Memory SE
Serial number	6-digit alphanumeric sequence

Figure 8-1 Example DRAM Label Information

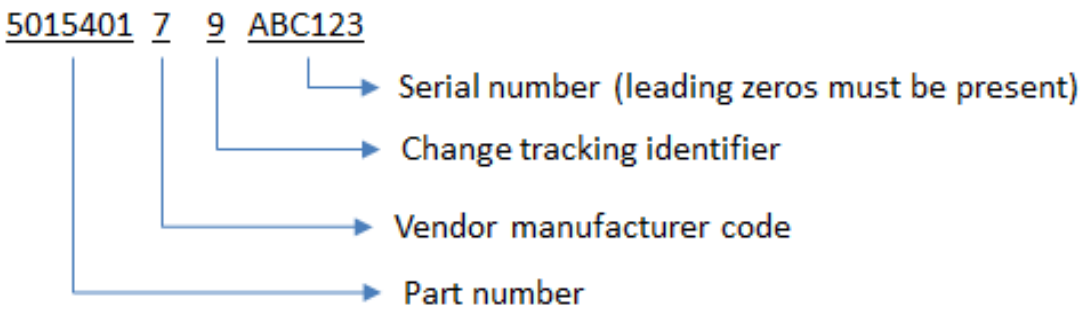


Table 8-2 DRAM Vendor or Manufacturer Code Matrix

Vendor or Mfg Code	*Change Tracking Identifier*	*DRAM Manufacturer*
0	7	Hitachi, now Elpida
2	8	Mitsubishi, now Elpida
4	Any	Micron
6	Any	Infineon
7	Any	Samsung
F	Any	Elpida

8.2 Static Random Access Memory (SRAM) Modules

This section details the barcode label requirements for SRAM modules. The information on the label is provided as a single, 15-digit barcode with human-readable numbers and text. The first seven digits are the Oracle part number. The following character (alphanumeric) is the external manufacturer (EM) or manufacturer code. The next two digits are the Oracle and EM or manufacturer revision numbers. The remaining five digits are the alphanumeric serial number. See *Table 8-3, SRAM Serial Number Breakdown*, below, and *Figure 8-2, Example SRAM Label Information*, on page 31.

Table 8-3 SRAM Serial Number Breakdown

Format	*Details*
Part number	The first seven digits of the Oracle part number, without the dash roll
EM or manufacturer code	Single alpha character
Revision number	1-digit Oracle revision number
Vendor or manufacturer revision number	1-digit EM or manufacturer revision number
Serial number	5-digit alphanumeric sequence

NOTE 5: Each supplier has a unique EM or manufacturer code (refer to *Table 8-4, SRAM EM or Manufacturer Code Matrix,* on page 31).

Figure 8-2 Example SRAM Label Information

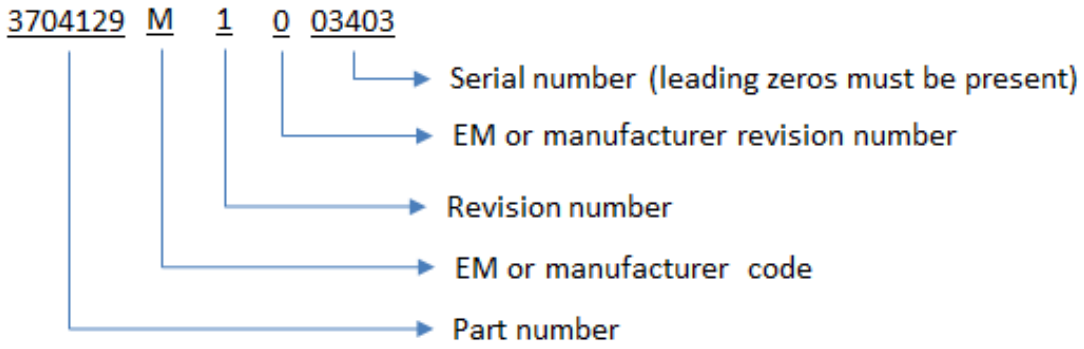


Table 8-4 SRAM EM or Manufacturer Code Matrix

Code Number	***Module Assembly***	***SRAM Manufacturer***
C	Celestica Toronto	IBM
K	Celestica Toronto	Samsung
Y	Celestica Toronto	Sony
H	Celestica Toronto	HGST or Renesas
M	Celestica Thailand	Samsung
S	Celestica Thailand	Sony
T	Celestica Thailand	Renesas

9 16-Digit Serial Numbers, Lot Codes, and Assembly IDs

9.1 Mouse Devices (Type 1 Label)

This section details the barcode label requirements for mouse devices. The information on the label is provided as a single, 16-digit barcode with human readable numbers. The first six digits are the vendor number. The next digit is the factory code. The next four digits are the year and week of manufacture. The next two digits are the product code. The remaining four digits are the serial number. See *Table 9-1, Mouse Devices Serial Number Breakdown (Type 1 Label)*, below, *Figure 9-1, Example Mouse Devices Label Information,* below, *Table 9-2, Mouse Devices Factory Code Matrix*, on page 33, and *Table 9-3, Mouse Devices Product Code Matrix*, on page 33.

Table 9-1 Mouse Devices Serial Number Breakdown (Type 1 Label)

Format	***Details***
Vendor number	The first six digits are the vendor number
Factory code	The next digit is the factory code
Year and week of manufacture	The next four digits are the year and week of manufacture
Product code	The next two digits are the product code
Serial number	The last four digits are the serial number

Figure 9-1 Example Mouse Devices Label Information

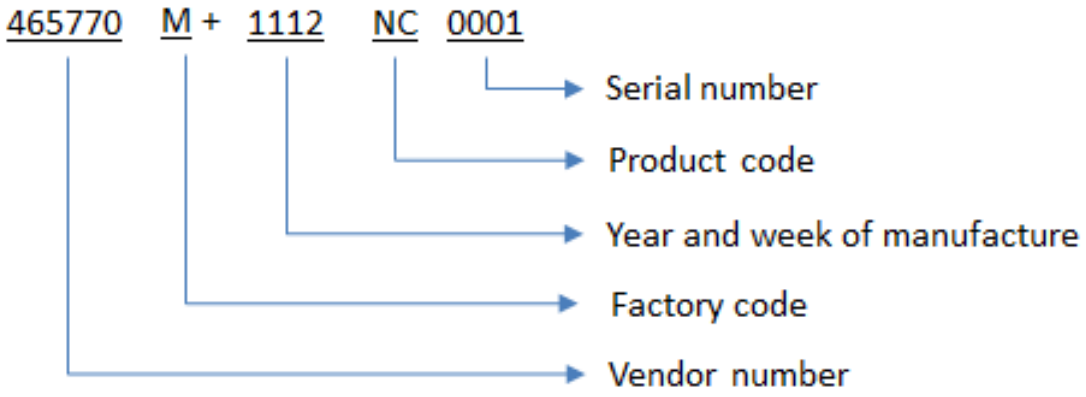


Table 9-2 Mouse Devices Factory Code Matrix

Factory Code	***Factory***
M	Montery

Table 9-3 Mouse Devices Product Code Matrix

Product Code	***Product***
NC	Mouse

9.2 Displays

This section details the barcode label requirements for displays. The information on the label is provided as a single, 16-digit barcode with human readable numbers and text. The first six digits are the vendor number. The next digit is the factory code. The next four digits are the year and week of manufacture. The next two digits are the product code. The remaining four digits are the serial number. See *Table 9-4, Display Serial Number Breakdown*, below, *Figure 9-2, Example Display Label Information*, on page 34, *Table 9-5, Displays Factory Code Matrix*, on page 34, and *Table 9-6, Displays Product Code Matrix*, on page 34.

Table 9-4 Display Serial Number Breakdown

Format	***Details***
Vendor number	The first six digits are the vendor number
Factory code	The next digit is the factory code
Year and week of manufacture	The next four digits are the year and week of manufacture
Product code	The next two digits are the product code
Serial number	The last four digits are the serial number

Figure 9-2 Example Display Label Information

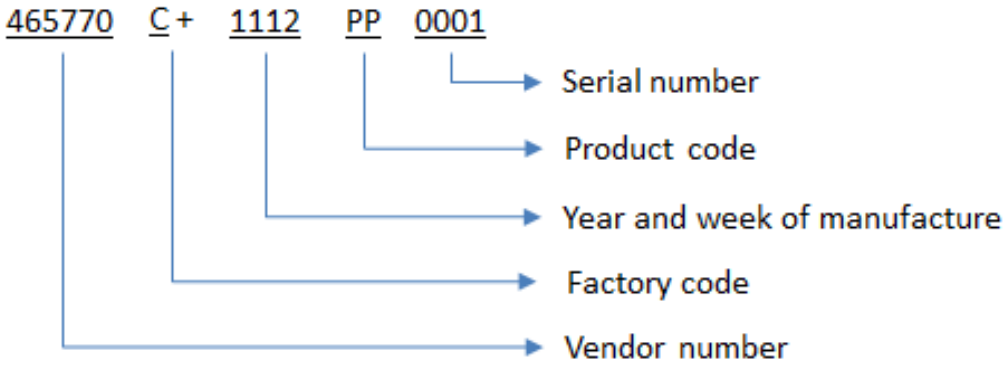


Table 9-5 Displays Factory Code Matrix

Factory Code	***Factory***
C	Quanta CSMC Factory
Q	Quanta QSMC Factory

Table 9-6 Displays Product Code Matrix

Product Code	***Product***
PR	Quanta CSMC 17" Orion LCD monitor China
PN	Quanta CSMC 19" Cypress LCD monitor China
PP	Quanta CSMC 22" Memphis LCD monitor China
PQ	Quanta CSMC 24" Banyan LCD monitor China

9.3 Keyboards

This section details the barcode label requirements for keyboards. The information on the label is provided as a single, 16-digit barcode with human-readable numbers. The first six digits are the vendor number. The next digit is the factory code. The next four digits are the year and week of manufacture. The next two digits are the product code. The remaining four digits are the serial number. See *Table 9-7, Keyboard Serial Number Breakdown*, below, *Figure 9-3, Example Keyboard Label Information*, below, *Table 9-8, Keyboard Factory Code Matrix*, on page 36, *and Table 9-9, Keyboard Product Code Matrix*, on page 36.

Table 9-7 Keyboard Serial Number Breakdown

Format	***Details***
Vendor number	The first six digits are the vendor number
Factory code	The next digit is the factory code
Year and week of manufacture	The next four digits are the year and week of manufacture
Product code	The next two digits are the product code
Serial number	The last four digits are the serial number

Figure 9-3 Example Keyboard Label Information

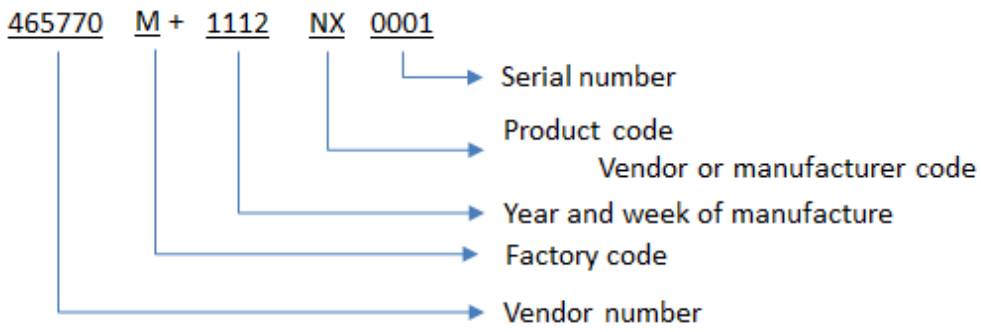


Table 9-8 Keyboard Factory Code Matrix

Factory Code	***Factory***
M	Montery

Table 9-9 Keyboard Product Code Matrix

Product Code	***Product***
NX	Type7 USB Keyboard-US
NW	Type7 USB Keyboard-UK
NJ	Type7 USB Keyboard-German
NI	Type7 USB Keyboard-French
NK	Type7 USB Keyboard-Italian
NQ	Type7 USB Keyboard-Spanish
NR	Type7 USB Keyboard-Swedish
NS	Type7 USB Keyboard-Swiss/French
NN	Type7 USB Keyboard-Norwegian
NY	Type7 USB Keyboard-UNIX
NF	Type7 USB Keyboard-Danish
NG	Type7 USB Keyboard-Netherlands/Dutch
NT	Type7 USB Keyboard-Swiss/German
N,	Type7 USB Keyboard-Korean
NO	Type7 USB Keyboard-Portuguese
NE	Type7 USB Keyboard-Taiwanese
NL	Type7 USB Keyboard-Japanese
NH	Type7 USB Keyboard-Finnish
NP	Type7 USB Keyboard-Russian
ND	Type7 USB Keyboard-Arabic
NV	Type7 USB Keyboard-Turkish Qtype
NE	Type7 USB Keyboard-Belgian
NK	Type7 USB Keyboard-Hebrew
	Type7 USB Keyboard-BLANK

10 17-Digit Serial Numbers, Lot Codes, and Assembly IDs

10.1 Hard Disk Drives (HDDs)

This section details the barcode label requirements for HDDs. The information on the label is provided as a single, 17-digit barcode with human-readable numbers and text. The first seven digits are the vendor ID. The following four digits are the year and week of manufacture. The next digit is the model identifier. The remaining five digits are the serial number. See *Table 10-1, HDD Serial Number Breakdown,* below and *Figure 10-1, Example HDD Label Information*, below.

Table 10-1 HDD Serial Number Breakdown

Format	***Details***
Vendor ID	7-digit vendor ID (see *Table 10-2*, *HDD Vendor ID Codes*, on page 38)
Year and week of manufacture	Four digits that identify the year and week of manufacture
Model identifier	Single-digit model identifier and *Section 10.1.1*, *HGST HDD Model Identifier Codes*, on page 41). For End of Life Model Codes, reference *Appendix A, Digit Serial Numbers, Lot Codes, and Assembly IDs for Hard Disk Drive (HDD) End of Life (EOL) Products,* on page 59.
Serial number	5-digit supplier serial number

NOTE 6: Each supplier has a unique vendor code (*see Table 10-2, HDD/SSD Vendor ID Codes*, on page 38) and a model identifier and *Section 10.1.1, HGST HDD Model Identifier Codes*, on page 41).

Figure 10-1 Example HDD Label Information

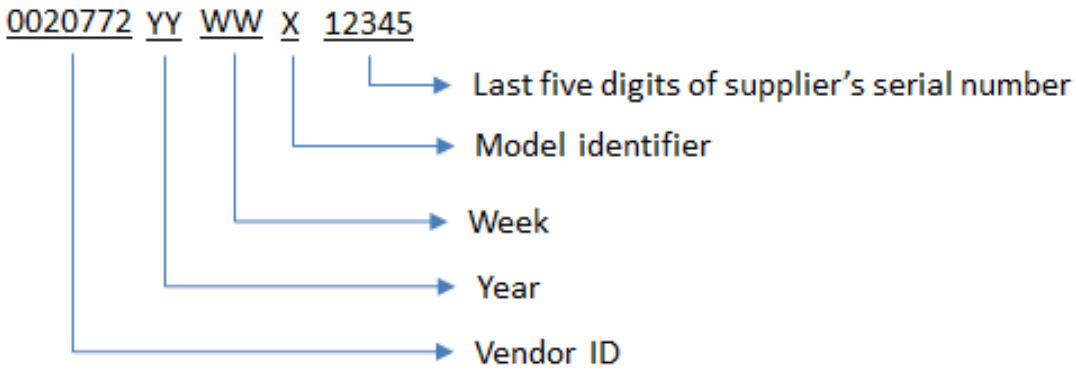
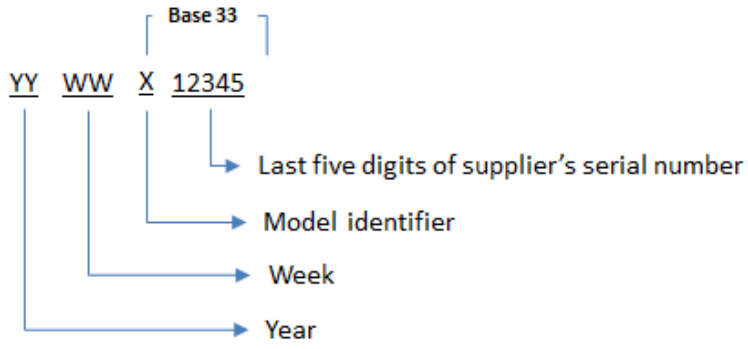


Figure 10-2 Oracle Serial Number Matrix



NOTE 7: Use upper case alphanumerical characters for the last six digits of the Oracle serial number, excluding I, O, and U from the list.

The SE must check other suppliers to ensure the same ID is not assigned that relates to the same RPM and/or capacity. Upon end of warranty level, a character or product can be retired and reused.

NOTE 8: The SE must use the designated Oracle repository for revision control and any changes must be passed to the coordinator for updating the embedded serial number document.

Table 10-2 HDD/ SSD Vendor ID Codes

Supplier	***Code***	***Section***
Hitachi/HGST	0001308 – Philippines 1308EST – China 1308PRB – Thailand 1308SGP – Singapore 1308UTC – Thailand 1308GSP – China 464151T – Thailand 464151S - Singapore HDD 464151F – Singapore SSD 464151G – Penang SSD	*Section 10.1.1*, *HGST HDD Model Identifier Codes*, on page 41
Western Digital	465064M	*Section 10.1.2*, *Western Digital HDD Model Identifier Codes*, on page 41
Toshiba	465781P	*Section 10.1.3*, *Toshiba HDD Model Identifier Codes*, on page 42

Table 10-3, Hard Drive Assembly Legend, below, provides the assembly legend used throughout this section as well as *Appendix A, Digit Serial Numbers, Lot Codes, and Assembly IDs for Hard Disk Drive (HDD) End of Life (EOL) Products*, on page 59. Refer to this information for Seagate, Fujitsu, and HGST (Hitachi) drives.

Table 10-3 Hard Drive Assembly Legend

Legend	***Description***
1	Spud only
2	Spud and Plt
3	T3 Sled
4	Spud3
5	Spud/Plt Nebs
6	Spud Only Nebs
7	Bare
8	SCSI3 Spud/Plt
9	SCSI4 Spud only
10	SCSI4 Nebs
11	Minnow
12	CSM1
13	CSM2
14	Thumper
15	Honeycomb
16	Alamo/Riverwalk
17	Coral
18	Stingray
19	Nemo
20	Marlin
21	Blue_Marlin
22	Mantaray
23	LCA
24	Dory
25	Wasabi
26	Gari

Table 10-4, EM Assembly ID Format, on page 40, provides the legend to identify where the bracket is assembled to the HDD. Refer to *Table 2-2, Required Formats of Assembly IDs,* on page 9, for assembly ID format definition.

Table 10-4 EM Assembly ID Format

EM	*EM Code*	*EM Location*	*EM Location Code*
Mitac	29	Fremont	MIS
Celestica	27	Monterey, Mexico	CMX
Oracle	13	Hillsboro	HLS
Oracle	14	Burlington	BUR
Celestica	22	Thailand	CTH
Mitac	31	China	MSL
Foxconn	37	China	NN

NOTE 9: RR Donnelley (RRD) is no longer a supplier. *Table 10-5, RRD Assembly ID Format,* below, is for historical reference only for HDD bracket assemblies for legacy products.

Table 10-5 RRD Assembly ID Format

Supplier Code	*Factory Location*	*Factory Code*
0069	Fremont	FMT
0069	Scotland	STD
0069	Singapore	SGP
0069	Apeldoorn	APL

10.1.1 HGST HDD Model Identifier Codes

NOTE 10: Since the Hitachi HDD Division was sold to Western Digital (WD), the current generation of drives will be labeled HGST, but the EOL drives will remain labeled as Hitachi.

Refer to *Figure 10-2, Oracle Serial Number Matrix*, on page 38, for Oracle serial number model identifier cross reference numbers for each table in this section. Also refer to *Table 10-3, Hard Drive Assembly Legend,* on page 39.

10.1.1.1 HGST 464151S or 464151T

Table 10-6 HGST 464151S or 464151T Model Identifier Codes

Oracle Serial Number Model Identifier	*Description*	*HGST Model Number*	*Oracle Part Number*
A	DRV,HGST,900GB,SFF,SAS,COBRAE	HUC109090CSS600	7045230
B	DRV,HGST,600GB,SFF,SAS,COBRAE	HUC109060CSS600	7045228, 7066795
C	DRV,HGST,300GB,SFF,SAS,COBRAE	HUC109030CSS600	7045226, 7066794
E	DR, 4TB,3.5" SAS-3,7200rpm,HGST Mars-KP	HUS724040ALS640	7065489
D	DRV,HGST,1.2TB,10Krpm,SFF,SAS2,COBRAE+,PHASE2, SSW	HUC101212CSS600	7045846, 7082883
F	Cobra F 600G SAS	HUC101860CSS200	7093013
G	Cobra F 1.2T SAS	HUC101812CSS200	7093035
M	DR,4TB,3.5" SAS3,7200rpm,HGST Aries-KP	HUS726040AL5210	7301575
P	DR,8TB,3.5" SAS3,7200rpm,HGST Aries-He	HUH728080AL5200	7301585
2	DRV, HGST, 1.2TB, SFF, SAS3,7200rpm, COBRA F, FIPS	HUC101812CSS205	7309429
4	DRV, HGST, 8TB, LFF, SAS3, 7200RPM, ARIES HE, FIPS	HUH728080AL5205	7309433
R	DRV,10TB,3.5" SAS3,7200rpm,HGST Libra	HUH721010AL5200	7332753
6	DRV,10TB,3.5" SAS3,7200rpm,HGST Libra, TCG	HUH721010AL5201	7342261
S	DRV,8TB,3.5" SAS3,7200rpm,HGST Libra	HUH721008AL5200	7332768
V	DRV,HGST,600GB,SFF,SAS,COBRAF,without encryption	HUC101860CSS204	7352258
U	DRV,HITACHI,1.2TB,SFF,SAS,COBRAF,without encryption	HUC101812CSS204	7350764
Q	DRV,10TB,3.5" SAS3,7200rpm,HGST Libra,without encryption	HUH721010AL5204	7350773
T	DRV,8TB,3.5" SAS3,7200rpm,HGST Libra,without encryption	HUH721008AL5204	7351439
N	DRV,14TB,3.5" SAS3,7200rpm,HGST,Leo-B,with encryption	WUH721414AL5200	7360615
Z	DRV,14TB,3.5" SAS3,7200rpm,HGST,Leo-B,without encryption	WUH721414AL5204	7360616
0	DRV,18TB CMR,3.5" SAS3,7200rpm,WDC, PARIS-C,with encryption	WUH721818AL5200	8205844
1	DRV,18TB CMR,3.5" SAS3,7200rpm,WDC, PARIS-C,without encryption	WUH721818AL5204	8205851
7	DRV,22TB CMR,3.5" SAS3,7200rpm,WDC, LONDON-D,with encryption	W7222A520ORA022T	8212808
Unassigned Codes: 0, 1, 8, 9, W, Y, (X will not be used since it is used as a wildcard)			

10.1.2 Western Digital HDD Model Identifier Codes

Refer to *Figure 10-2, Oracle Serial Number Matrix*, on page 38, for Oracle serial number model identifier cross reference numbers for each table in this section. Also refer to *Table 10-3, Hard Drive Assembly Legend,* on page 39.

10.1.2.1 Western Digital 465064M

Table 10-7 Western Digital 465064M Model Identifier Codes

Oracle Serial Number Model Identifier	*Description*	*Western Digital Model Number*	*Oracle Part Number*
B	Drive, 500GB, SATA, 2.5", 10Krpm, WD Inca	WD501BLHXSUN500G	7053913
Unassigned Codes: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z			

10.1.3 Toshiba HDD Model Identifier Codes

Refer to *Figure 10-2, Oracle Serial Number Matrix,* on page 38, for Oracle serial number model identifier cross reference numbers for each table in this section. Also refer to *Table 10-3, Hard Drive Assembly Legend*, on page 39.

10.1.3.1 Toshiba 465781P

Table 10-8 Toshiba 465781P Model Identifier Codes

Oracle Serial Number Model Identifier	*Description*	*Toshiba Model Number*	*Oracle Part Number*
A	Spec,Drive,2TB,3.5",7200rpm,SAS-2,Toshiba Mustang	MK2001RKBSUN1.0T	7045283
B	Drive,2TB,3.5",7200rpm,SAS-2,Toshiba Mustang	MK2001RKBSUN2.0T	7045281
Unassigned Codes: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z			

10.1.4 Seagate HDD Model Identifier Codes

10.1.4.1 Seagate 0440KOR

Table A-2 Seagate 0440KOR Model Identifier Codes

Oracle Serial Number Model Identifier	*Description*	*Seagate Model Number (Electronic)*	*Oracle Part Number*
V	Mobula BP 14TB HDD		
L	DRV,SEAGATE,1.2TB,SFF,SAS,SKYBOLT	ST1200IN9SUN1.2T	7363535
J	DRV,SEAGATE,600GB,DE-STROKE,SFF,SAS,SKYBOLT	ST0900IN9SUN600G	8200040
D	DRV,SEAGATE,900GB,DE-STROKE,SFF,SAS,SKYBOLT	ST0600IN9SUN900G	8205834
E	DRV,SEAGATE,300GB,DE-STROKE,SFF,SAS,SKYBOLT	ST0300IN9SUN300G	8212778
Unassigned Codes: 0, 1, 2, 3, 4, 9, D, F, Q, W, Y, Z (X will not be used since it is used as a wildcard)			

10.1.4.2 Seagate 0440WUX

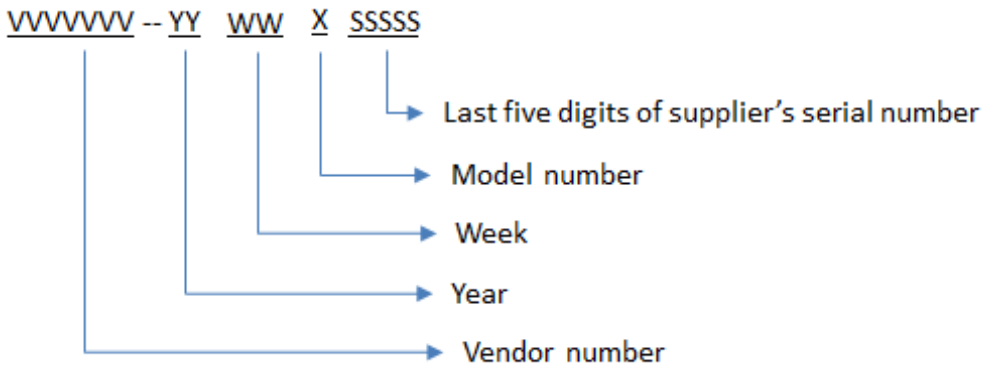
Table A-3 Seagate 0440WUX Model Identifier Codes

Oracle Serial Number Model Identifier	*Description*	*Seagate Model Number (Electronic)*	*Oracle Part Number*
L	DRV,SEAGATE,1.2TB,SFF,SAS,SKYBOLT	ST1200IN9SUN1.2T	7363535
J	DRV,SEAGATE,600GB,DE-STROKE,SFF,SAS,SKYBOLT	ST0900IN9SUN600G	8200040
D	DRV,SEAGATE,900GB,DE-STROKE,SFF,SAS,SKYBOLT	ST0600IN9SUN900G	8205834
E	DRV,SEAGATE,300GB,DE-STROKE,SFF,SAS,SKYBOLT	ST0300IN9SUN300G	8212778
Unassigned Codes: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, G, H, K,N, P, R, S, T, V, W, (X will not be used since it is used as a wildcard)			

10.2 Tape Drives (Pre-12 April 2004)

For a pre-12 April 2004, part number 950-1037-xx, and tape drive serial number example, refer to *Figure 10-3, Pre-12 April 2004 Oracle Tape Drive Serial Number Format,* below.

Figure 10-3 Pre-12 April 2004 Oracle Tape Drive Serial Number Format



For the tape drive matrix for pre-12 April 2004 tape drives, refer to *Table 10-9, ADIC, Vendor Number: 0001412, Tape Drive Matrix*, on page 44, *Table 10-10, Hewlett Packard, Vendor Number: 0118913, Tape Drive Matrix*, on page 44, and *Table 10-11, Quantum SSG, Vendor Number: 0122842, Tape Drive Matrix,* on page 45.

Table 10-9 ADIC, Vendor Number: 0001412, Tape Drive Matrix

Oracle Serial Number Model Identifier (X)	*Mfg or Configuration Site*	*Model Description*	*Supplier Model Number*	*Oracle Product Part Number (X-Option)*	*Oracle Assembly Part Numbers*
A	Redmond	L7 DLT8K HVD	9-00229-01	595-6811-xx	380-0802-xx
E	Rotweill (BDT)	L8 LTO GenI LVD	9-00244-01	595-6858-xx	380-0817-xx

Table 10-10 Hewlett Packard, Vendor Number: 0118913, Tape Drive Matrix

Oracle Serial Number Model Identifier (X)	*Mfg or Configuration Site*	*Model Description*	*Supplier Model Number*	*Oracle Product Part Number (X Option)*	*Oracle Assembly Part Numbers*
A	US	L9 and L20	N/A	All L9 and L20	All L9 and L20
B	Cork	L9 and L20	N/A	All L9 and L20	All L9 and L20
C	Philippines/ Hungary	DDS4	C5683-006xx	595-5431-xx 595-5432-xx 595-6180-xx	390-0027-xx 390-0028-xx 390-0090-xx
F	Hungary	LTO Gen2 Desktop box	C7380-0062x	595-7147-xx	380-0914-xx
L	Philippines/ Hungary	DDS3	C1537-006xx	595-4163-xx, 595-5301-xx 595-4165-xx, 595-4379-xx	370-2376-xx 370-2377-xx
U	N/A	DDS3 Autoloader	C5713-006xx	595-4167-xx	370-2379-xx 370-2380-xx

V	Hungary	DAT72 Desktop drive	C7439-00625	595-7384-xx	380-0993-xx
		DAT72 drive	C7438-0062x	595-7468-xx 595-7469-xx	380-1004-xx 380-1005-xx

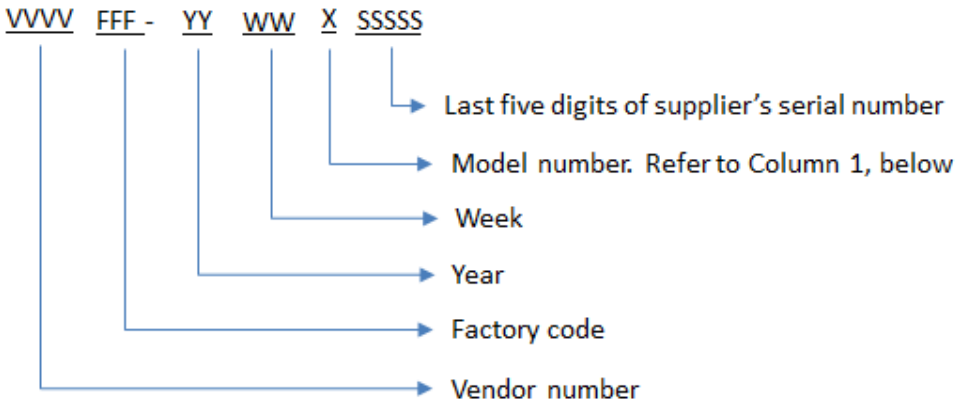
Table 10-11 Quantum SSG, Vendor Number: 0122842, Tape Drive Matrix

Oracle Serial Number Model Identifier (X)	***Mfg or Configuration Site***	***Model Description***	***Supplier Model Number***	***Oracle Product Part Number (X-Option)***	***Oracle Assembly Part Numbers***
A	Mexico	L25 DLT HVD base unit	6420010-01	595-6546-xx	380-0677-xx
B	Mexico	L25 LTO HVD base unit	6420010-02	595-6547-xx	380-0678-xx
C	Mexico	L100 LTO LVD base unit	6422100-03	595-6853-xx	380-0810-xx
D	Penang/Mexico	DLT8K HVD drive L25/L100	6420800-01	595-6550-xx	380-0681-xx
E	Mexico	L100 DLT HVD base unit	6422100-01	595-6548-xx	380-0679-xx
F	Mexico	L100 LTO HVD base unit	6422100-02	595-6549-xx	380-0680-xx
G	Penang/ Blackbushe	LTO GenI LVD drive L100	6420800-04	595-6854-xx	380-0811-xx
H	Irvine	L25/L100 HVD management card	6420805-01	595-6554-xx	383-0686-xx
I	Irvine	FC420 LVD Fibre channel card	6420807-01	595-6855-xx	380-0812-xx
J	Irvine	L25/L100 LVD/HVD management card	6420805-02	595-7005-xx	380-0894-xx
K	Mexico	L25 LTO LVD base unit	6420010-04	595-7004-xx	380-0893-xx
L	Penang/ Blackbushe	LTO GenI HVD drive L25/L100	6420800-02	595-6552-xx	380-0683-xx
M	Mexico	L25 DLT LVD Base unit	6420010-03	595-6870-xx	380-0821-xx
N	Mexico	L100 DLT LVD base unit	6422100-04	595-6871-xx	380-0822-xx
P	Penang/ Blackbushe	LTO GenII LVD drive L100	6420800-07	595-7003-xx	380-0892-xx
S	Penang/Mexico	SDLT220 HVD drive L25/L100	6420800-03	595-6551-xx	380-0682-xx
T	Penang/Mexico	SDLT320 LVD drive L25/L100	6420800-05	595-6869-xx	380-0820-xx
W	Irvine	Stacklink Common L25/L100	N/A	595-6803-xx	380-0797-xx
X	Irvine	Stacklink 2-L25	N/A	595-6558-xx	380-0689-xx
Y	Irvine	Stacklink 5-L25/L100	N/A	595-6559-xx	380-0690-xx
Z	Irvine	Stacklink 7-L25/L100	N/A	595-6560-xx	380-0691-xx

10.3 Tape Drives (Post-12 April 2004)

For a post-12 April 2004, part number 950-4477-xx and tape drive serial number example, refer to *Figure 10-4, Post-12 April 2004 Oracle Tape Drive Serial Number Format*, below.

Figure 10-4 Post-12 April 2004 Oracle Tape Drive Serial Number Format



For the tape drive matrix for post-12 April 2004 tape drives, refer to *Table 10-12, Hewlett Packard, Vendor Number: 0216, Tape Drive Matrix*, below, *Table 10-13, Quantum Automation, Vendor Number: 1411, Tape Drive Matrix*, on page 47, and *Table 10-14, Quantum Drives, Vendor Number: 0407, Tape Drive Matrix,* on page 47.

Table 10-12 Hewlett Packard, Vendor Number: 0216, Tape Drive Matrix

Oracle Serial Number Model Identifier "X"	*Mfg or Configuration Site (FFF)*	*Model Description*	*Supplier Model Number*	*Oracle Product Part Number (X-Option)*	*Oracle Assembly Part Numbers*
T	Houston (001), Czech Republic (002), China (003)	DAT72 1U Tray	TBD	595-7590-xx	380-1116-xx

Table 10-13 Quantum Automation, Vendor Number: 1411, Tape Drive Matrix

Oracle Serial Number Model Identifier "X"	***Mfg or Configuration Site***	***Model Description***	***Supplier Model Number***	***Oracle Product Part Number (X-Option)***	***Oracle Assembly Part Numbers***	***Notes***
V	Penang (TBD) Mexico (TBD)	SDLT600 LVD drive L25/L100	TBD	TBD	TBD	Still requires qualification

Table 10-14 Quantum Drives, Vendor Number: 0407, Tape Drive Matrix

Oracle Serial Number Model Identifier "X"	***Mfg or Configuration Site***	***Model Description***	***Supplier Model Number***	***Oracle Product Part Number (X-Option)***	***Oracle Assembly Part Numbers***	***Notes***
TBD	Penang (TBD)	SDLT600 LVD desktop drive	TBD	TBD	TBD	Still requires qualification

11 18-Digit Serial Numbers, Lot Codes, and Assembly IDs

11.1 Dual Inline Memory Module (DIMM)

DIMMs that adhere to JEDEC rules for serial presence detect (SPD) are programmed by the manufacturer with specific information. Specific bytes of this information can be synthesized into a serial number so that Oracle and its suppliers can track it. This serial number can also be used for identifying the DIMM even when it has no physical label. This synthesized serial number is 18 hexadecimal characters long.

This is the recognized format that can be used when reporting which JEDEC DIMMs are configured into a system or shipped loose as FRUs or X-options.

The serial number recognized by Oracle can be produced in hexadecimal characters by concatenating the values contained in the following fields of the SPD in order:

- The module manufacturer's JEDEC ID code, represented in compressed form as jjjj
- Module Mfg location, represented as ll
- Module Mfg date, represented as yyww
- Module serial number, represented as ssssssss
- The resulting serial number is represented as jjjjllyywwssssssss

NOTE 11: The serial number in this form is not written into the SPD.

11.1.1 DDR1 DIMMs

The Oracle-recognized serial number can be created for DDR1 DIMMs by concatenating the information in the identified bytes of the SPD (refer to *Table 11-2, Synthesis of an Oracle Serial Number for DDR1 DIMMs*, on page 49).

Compress the module manufacturer's JEDEC ID code from eight bytes to two to comply with the method described in *Corporate FRU ID: SEEPROM Programming Overview and Procedures*, 950-3757-xx. Examples of compressed manufacturer's codes are shown in *Table 11-1, Examples of Compressed JEDEC ID Codes*, on page 49.

Table 11-1 Examples of Compressed JEDEC ID Codes

Manufacturer Name	*JEDEC ID Code according to JEP-106*	*Oracle's Compressed JEDEC ID, jjjj*
Infineon (formerly Siemens)	C1000000 00000000	00C1
SK Hynix	AD000000 00000000	00AD
Micron	2C000000 00000000	002C
Micron CMS	7F450000 00000000	0145
Qimonda	7F7F7F7F 7F510000	0551
Samsung	CE000000 00000000	00CE

Table 11-2 Synthesis of an Oracle Serial Number for DDR1 DIMMs

SPD Bytes	*Encoding*	*Field Name*	*Convert to*	*Number of Characters*	*Order of Concatenation (left to right)*	*Variable Representation*
64-71	Binary	Module Manufacturer's JEDEC ID Code	hexadecimal	4[3]	1	jjjj
72	Binary	Module Mfg Location	hexadecimal	2	2	ll
93-94	BCD	Module Mfg Date	decimal	4	3	yyww
95-98	Binary	Module Serial Number	hexadecimal	8	4	ssssssss

11.1.2 DDR2 DIMMs

The Oracle-recognized serial number can be created for DDR2 DIMMs by compressing and concatenating the information in the identified bytes of the SPD in the specified order (refer to *Table 11-3, Synthesis of an Oracle Serial Number for DDR2 DIMMs*, on page 50).

[3] Compress the eight-byte module manufacturer's JEDEC ID code to two bytes (four hexadecimal characters) by following the method described in *Corporate FRU ID: SEEPROM Programming Overview* and *Procedures for FRU Vendors,* 950-3757-xx.

Table 11-3 Synthesis of an Oracle Serial Number for DDR2 DIMMs

SPD Bytes	Encoding	Field Name	Convert to	Number of Characters	Order of Concatenation (left to right)	Variable Representation
64-71	Binary	Module Manufacturer's JEDEC ID Code	hexadecimal	4[4]	1	jjjj
72	Binary	Module Mfg Location	hexadecimal	2	2	ll
93-94	BCD	Module Mfg Date	decimal	4	3	yyww
95-98	Binary	Module Serial Number	hexadecimal	8	4	ssssssss

11.1.3 FB DIMMs

The Oracle-recognized serial number can be created for FB DIMMs by concatenating the information in the identified bytes of the SPD in the specified order (refer to *Table 11-5, Synthesis of an Oracle Serial Number for FB DIMMs*, on page 51).

The module manufacturer's JEDEC ID code written into FB DIMMs has already been compressed to two bytes. In this case, however, JEDEC requires that odd parity to be imposed on the first byte by using the high-order bit. Mask out this high-order bit in the first byte to create Oracle's version of a compressed JEDEC code. For examples of compressed JEDEC ID codes, refer to *Table 11-4, Examples of Compressed JEDEC ID Codes*, below.

Table 11-4 Examples of Compressed JEDEC ID Codes

Manufacturer Name	JEDEC 's Compressed ID Code	Oracle's Compressed JEDEC ID, jjjj
Infineon (formerly Siemens)	80C1	00C1
SK Hynix	80AD	00AD
Micron	802C	002C
Micron CMS	0145	0145
Qimonda	0551	0551
Samsung	80CE	00CE

[4] Compress the eight-byte module manufacturer's JEDEC ID code to two bytes (four hexadecimal characters) by following the method described in *Corporate FRU ID: SEEPROM Programming Overview and Procedures*, 950-3757-xx.

Table 11-5 Synthesis of an Oracle Serial Number for FB DIMMs

SPD Bytes	Encoding	Field Name	Convert to	Number of Characters	Order of Concatenation (left to right)	Variable Representation
117-118	Binary	Module manufacturer's JEDEC ID Code	hexadecimal	4[5]	1	jjjj
119	Binary	Module Mfg location	hexadecimal	2	2	ll
120-121	BCD	Module Mfg date	decimal	4	3	yyww
122-125	Binary	Module serial number	hexadecimal	8	4	ssssssss

11.1.4 DIMM Tracking Labels

To facilitate tracking DIMMs individually during Mfg, a permanent label having a tracking number on it can be applied to them. The format of the tracking number conforms to one of the formats defined in *Table 2-3, Required Formats of Mfg TNs*, on page 9. The sequence number (SSSS) of an Mfg TN can be reset weekly.

NV DIMMs shall utilize an MFG TN, ID Type M3, as documented in *Section 2.4 MFG TNs*, *Table 2-3, Required Formats of Mfg TNs*. The values used for the multi-use code (XX) describe the manufacturer and capacity of the NVDIMM, are shown in *Table 11-6, XX Code Definitions*.

The values used for the multi-use code (XX) describe the manufacturer and capacity of the DIMM. The list of valid values is shown in *Table 11-6, XX Code Definitions*, below.

Table 11-6 XX Code Definitions

Manufacturer	X– Code		Capacity	–X Code
ATP Electronics	B		512MB	5
SK Hynix	H		1GB	1
Micron	M		2GB	2
Nanya	N		4GB	4
Qimonda and Infineon	Q		8GB	8
Samsung	S		16GB	6
Smart Technology	A		32GB	3
Viking	V		64GB	A
			128GB	B
			256GB	C
			128MB	X
			256MB	Y
Unigen	U			

[5] Mask out the high-order bit of byte 117 when creating the hexadecimal form of the module manufacturer's JEDEC ID code.

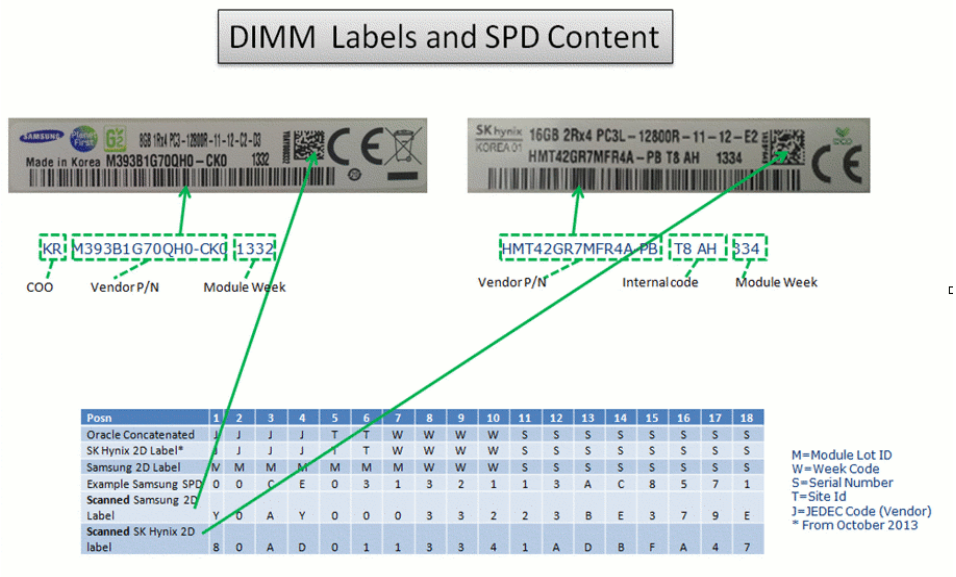
11.1.5 Hynix and Samsung 2D Bar Code Label

Hynix and Samsung implemented a 2D bar code label starting with DDR3 and their upcoming technology effective DIMM date code WW1340.

Figure 11-1 2D Bar code Content vs Oracle Concatenated (SPD synthesized) below explains the content of the 2D bar code which is decoded into 18 characters unique to each DIMM. The 2D bar code will be scanned and will be replacing the Mfg TN.

Figure 11-1 2D Bar code Content vs Oracle Concatenated (SPD synthesized) below also decodes the content of the 2D label for each vendor vs the Oracle concatenated serial number (synthesized from the SPD content).

Figure 11-1 2D Bar code Content vs Oracle Concatenated (SPD synthesized)



Posn	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Oracle Concatenated	J	J	J	J	T	T	W	W	W	W	S	S	S	S	S	S	S	S
SK Hynix 2D Label*	J	J	J	J	T	T	W	W	W	W	S	S	S	S	S	S	S	S
Samsung 2D Label	M	M	M	M	M	M	M	W	W	W	S	S	S	S	S	S	S	S
Example Samsung SPD	0	0	C	E	0	3	1	3	2	1	1	3	A	C	8	5	7	1
Scanned Samsung 2D Label	Y	0	A	Y	0	0	0	3	3	2	2	3	B	E	3	7	9	E
Scanned SK Hynix 2D label	8	0	A	D	0	1	1	3	3	4	1	A	D	B	F	A	4	7

For DDR5, the 2D Label contents are shown in the example below. We need to extract the serial number information denoted by the character (S). Refer to the example below.

	Sample Label	Contents	Extracted information, using character identifier (S)
Samsung		(L)256GB 2S4Rx4 PC5-4800B-RA0-0909-XT(S)80CE01211601AB2700(P)M321RBGA0B40-CWKZP(M)30R4000	80CE01211601AB2700
Hynix		(L)64GB 2Rx4 PC5-5600B-RA0-1010-XT(S)80AD01220813DA0FC3(P)HMCG94AGBRA176N	80AD01220813DA0FC3

11.2 NAND Flash Products

To facilitate tracking NAND Flash products individually during Mfg, the application of a permanent Oracle serial number label is required. The number format must conform to the serial number format for subassemblies, as defined in *Table 2-1, Required Formats of Serial Numbers*, on page 8.

The value used for the multi-use code (X or XX) describes the manufacturer (X) or manufacturer and model (XX). The list of valid values are shown in *Table 11-7, NAND Flash Product Code Definition (X or XX)*, below.

Table 11-7 NAND Flash Product Code Definition (X or XX)

Supplier	Description	Supplier Part Number	Oracle Part Number	XX or X Coding
Intel	32GB 2.5" SATA2 SLC SSD	SSDSA2SH032G1	371-4196-xx	NA
Intel	100GB 2.5” SATA2 eMLC Lyndonville	MM# 916150 / SSDSA2BZ100G3SA	7017177	NB
Intel	300GB 2.5” SATA2 eMLC Lyndonville	MM# 916152 / SSDSA2BZ300G3SA	7017181	NB
Intel	400GB 2.5" SATA3 eMLC Taylorsville	MM# 923978 / SSDSC2BA400G3SP	7076379	ND
Intel	1.6TB Fultondale NVMe SFF SSD	MM# 937379 / SSDPE2MD016T4SE	7093848	NF
Intel	1.6TB Fultondale NVMe LP AIC	MM# 937380 /SSDPEDMD016T4SE	7090698	NG
Intel	6.4TB Cliffdale 4608 Series NVMe AIC, AURA 7	SSDPECKE064T7	7335943	NJ
Intel	6.4TB,Cliffdale 4600 Series SFF 2.5",NVMe SSD	SSDPE2KE064T7	7335940	NH
Intel	6.4 TB Cliffdale Refresh SFF	MM# 984749 / 984750 / SSDPE2KE064T8	7361456	NK
Intel	6.4 TB Cliffdale Refresh AIC	SSDPECKE064T8	7361454	NL
Intel	SSD, 6.8TB, 2.5in, NVMe, Intel D7-P5500	SSDPF2KX076T9S	8204576 (G) 8206492 (G), 8204598 (G)	ID Type S8
Intel	ASSY, 6.4TB FLASH, NVMe (AIC, AURA9)	MM# 999RNX and 99A5JJ	8205697 (G)	ID Type S8
Intel	SSD, 3.84TB, 2.5in, NVME, (AURA9)	MM# 99A5JH	8206200 (G)	ID Type S8
Intel	M.2,150GB,SATA,22x80mm,SSD,INTEL, DC S3520	MM# 951057 / SSDSCKJB150G7	7341587	ID Type S8
Intel	M.2,480GB,SATA,22x80mm,SSD,INTEL, DC S3520	MM# 951059 / SSDSCKJB480G7	7341590	ID Type S8
Intel	M.2,240GB,SATA,22x80mm,SSD,INTEL, DC S4510	MM# 963510 / 963514 / SSDSCKKB240G8	7361253	ID Type S8
Intel	M.2,480GB,SATA,22x80mm,SSD,INTEL, DC S4510	MM# 963511 / 963515 / SSDSCKKB480G8	7361255	ID Type S8
Intel	SFF 2.5”,480GB,SATA,,SSD,INTEL, DC S4510	MM# 963340 / 963350 / SSDSC2KB480G8	7361257	ID Type S8

Micron	M.2,240GB,SATA,22x80mm,SSD,MICRON,5300	MTFDDAV240TDS-1AW1ZABYY	8205295	ID Type S8
Marvell	ASY,DOM,FLASH,24GB,D21Y	SD88SA024SB0-DOM1D21Y	7061269	M0
Marvell	FMOD,SATA,24GB,SLC,D139	SD88SA024SB0-MDM1D139	7061954	M0
Marvell	ASSY,24GB SATA FMOD,BOOT,D20R	SD88SA024BB0-MDM1C000	371-4531-xx	M0
STEC/HGST	73GB 2.5” Gen4 SAS SSD	Z16IZF2E-73UCU-ORC	7045627	H0
STEC/HGST	200GB 2.5” Gen4 SAS SSD	Z16IZF2E-200UCU-ORC	7049385	H0
STEC	73GB 3.5” Gen3 SAS-2 SSD	Z16IZF3D-73UCT-ORC	371-5049-xx	G0
STEC	18GB 3.5” Gen2 SAS SSD	Z16IZD3C-18UC-SUN	371-4820-xx	E0
STEC	100GB, 2.5” SATA SLC SSD	MACH M8ISB2-100UC	371-4193-xx	C0
STEC	18GB 3.5” SATA SLC SSD	Z16ISD3B-18UC-SUN	371-4192-xx	D0
HGST	200GB 2.5” Sunset Cove Plus	HUSMM1640ASS200 / 0B32120	7093646	JL
HGST	400GB ME 2.5” Sunset Cove Plus	HUSMM1640ASS200 / 0B32110	7093645	JQ
HGST	1.6TB 2.5" SunsetCove Plus	HUSMR1616ASS200 / 0B32206	7094629	J9
HGST	1.6TB 2.5" SunsetCove Plus FIPS	HUSMR1616ASS205 / 0B32292	7309427	J2
HGST	400GB 2.5" SunsetCove Plus FIPS	HUSMM1640ASS205 / 0B32196	7309424	J1
HGST/WD	200GB BearCove SSD, WI,2.5",SAS3	HUSMH4020ASS210 / 0B35319	7336973	J3
HGST/WD	800GB BearCove SSD, ME, 2.5", SAS3	HUSMM3280ASS200 / 0B35149	7330684	J4
HGST/WD	3.2TB BearCove SSD, RI, 2.5", SAS3	HUSMR3232ASS200 / 0B35194	7337004	J5
HGST/WD	800GB BearCove SSD, ME, 2.5", SAS3, FIPS	HUSMM3280ASS205 / 0B35300	7337016	J6
HGST/WD	3.2TB BearCove SSD, RI, 2.5", SAS3, FIPS	HUSMR3232ASS205 / 0B35345	7337022	J7
HGST/WD	3.2TB BearCove SSD, RI, 2.5", SAS3, TCG	HUSMR3232ASS201 / 0B35273	7342259	JD
HGST/WD	200GB BearCove SSD, WI,2.5",SAS3,without encryption	HUSMH4020ASS214-0B35311	7350740	JE
HGST/WD	800GB BearCove SSD, ME, 2.5", SAS3,without encryption	HUSMM3280ASS204-0B35087	7350742	JF
HGST/WD	3.2TB BearCove SSD, RI, 2.5", SAS3, without encryption	HUSMR3232ASS204-0B35360	7350744	JG
WD	200GB BearCovePlus ISE	WUSTM3240ASS200 0B41784	7364128	JH
WD	800GB BearCovePlus ISE	WUSTM3280ASS200 0B41410	7364132	JJ
WD	7680GB BearCovePlus ISE	WUSTR1576ASS200 0B41424	7364136	JK
WD	200GB BearCovePlus without encryption	WUSTM3240ASS204 0B41786	7364130	JM
WD	800GB BearCovePlus without encryption	WUSTM3280ASS204 0B40432	7364134	JN
WD	7680GB BearCovePlus without encryption	WUSTR1576ASS204 0B40577	7364138	JP
Toshiba	512GB 2.5” HG3 SSD	THNSNC512GBSJ	371-5052-xx	T0
Toshiba	512GB 2.5” HG2 SSD	THNS512GG8BBAA	371-4769-xx	T0
Sandisk	1.6TB 2.5" SAS SSD	SDLB6JC-016T-60	7045914	PA
Sandisk	400GB 2.5" SAS SSD	SDLB6HM-400G-60	7066736	PB

Samsung	480GB 2.5" SFF SATA SSD SM-863	MZ7KM480HAHP-000U5	7328750	KC
Samsung	480GB 2.5" SFF SATA SSD SM-863 OEM	MZ7KM480HAHP-00005	7353626	KF
Samsung	120GB 80mmx22mm SATA M.2 PM-872	MZNLN120HCGR-000U1	7310616	ID Type S8
Samsung	Aura6 3.2TB SFF 2.5-inch NVMe PCIe 3.0 SSD PM-1725	MZWLK3T2HCJL-000U3	7314250	KA
Samsung	Aura6 3.2TB Flash Accelerator F320 NVMe PCIe 3.0 PM-1725	MZPLK3T2HCJL-000U4	7317693	KB
Samsung	DualPort SFF NVMe SSD 6.4TB, PM1725b	MZWLL6T4HMLA-00AU3 MZWLL6T4HMLA-000U3	8200193 8204598 (G)	KG
Samsung	SSD, 6.8TB/7.68TB Max, 2.5in, NVMe, Samsung PM1733 v1	MZWLJ7T6HALA-00AU3	8204577 8206492 (G) 8204598 (G)	ID Type S8
Samsung	SSD, 3.84TB, 2.5in, NVMe, Samsung PM1733 v2	MZWLR3T8HBLS-00AU3	8206193 8206200 (G)	ID Type S8
Samsung	SSD, 7.68TB Max, 2.5in, NVMe, Samsung PM1733 v2	MZWLR7T6HALA-00AU3	8207694	ID Type S8
Samsung	SSD,200GB WI,2.5",SAS3,Samsung PM1643a	MZILT960HBHQ-00007 MZILT960HBHQ-00AU3	8206077	ID Type S8
Samsung	SSD,800GB ME,SAS3 2.5",Samsung PM1643a	MZILT1T9HBJR-00007 MZILT1T9HBJR-00AU3	8206081	ID Type S8
Samsung	SSD,7.68TB RI,2.5",SAS3,Samsung PM1643a	MZILT7T6HALA-00007 MZILT7T6HALA-00AU3	8206085	ID Type S8
Samsung	SSD,200GB WI,2.5",SAS3,Samsung PM1653a	MZILG960HCHQ-00AU3	8213350	ID Type S9
Samsung	SSD, 800GB ME,2.5",SAS3,PM1653, MARLIN	MZILG1T9HCJR-00AU3	8213351	ID Type S9
Samsung	SSD,7.68TB RI,2.5",SAS3,Samsung PM1653a	MZILG7T6HBLA-00AU3	8213352	ID Type S9

11.3 Power Components (AC_DC & DC_DC & PDU) (Type 2 Label)

This section details the barcode label requirements for a Type 2 label, S6 ID Type used on power supplies (refer to *Table 2-1, Required Formats of Serial Numbers*, on page 8). The information on the label is provided as a single, 18-digit barcode with human-readable alpha-numeric characters. See *Table 11-8, Power Supply Serial Number Breakdown*, below, *Figure 11-2, Example DC_DC Power Supply Label Information,* below, and *Figure 11-3, Example AC_DC Power Supply Label Information*, on page 56.

Table 11-8 Power Supply Serial Number Breakdown

Format	***Details***
Vendor or manufacturer code	Eight alpha-numeric characters with leading zeros if necessary: 6-digit numeric vendor code and a single alpha character factory code from *Table 11-9*, *Power Supply Vendor or Manufacturer Code Matrix*, on page 56, and a '+' sign.
Year and week of manufacture	Four numeric digits: 2-digit year code for the year of the manufacture and 2-digit week code for the week of the build
Power supply identifier	2-character designator of specific power supplies (Starting with AA for DC_DC units, the next increment is AB) (Starting with A0 for AC_DC units, the next increment is A1)
Serial number	4-digit serial number (The last four digits represent the serialization number for that week in base 31 (0 to 9 and A to Z, except letter I, O, Q, S, and Z)

Figure 11-2 Example DC_DC Power Supply Label Information

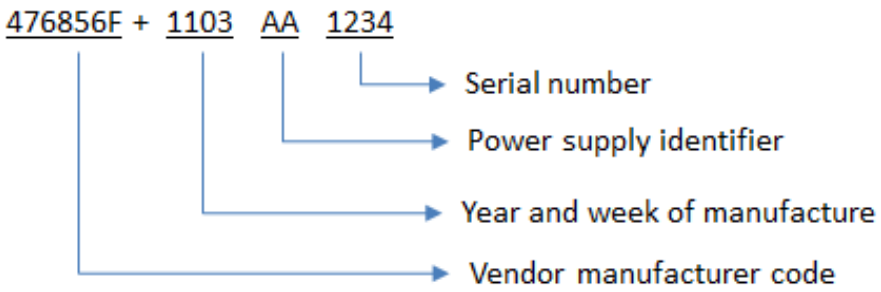


Figure 11-3 Example AC_DC Power Supply Label Information

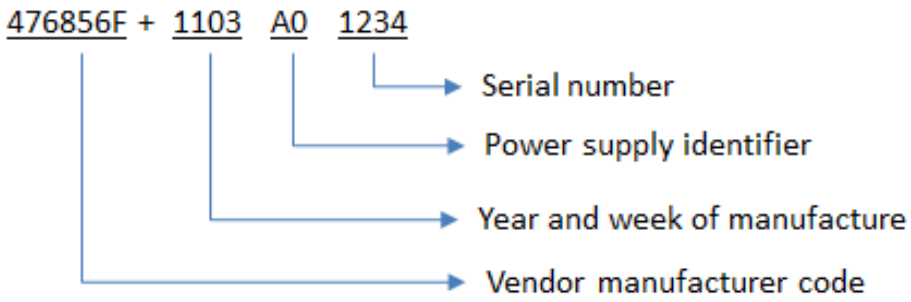


Table 11-9 Power Supply Vendor or Manufacturer Code Matrix

Code Number	***Manufacturer***
476856(F = China / Fuyong) (Z = China / Zhong Zhan) (C = Philippines / Cavite) (L = Philippines / Laguna)	Advanced Energy (Astec/Artesyn)
465776(G = China / Guangming)	Bel Power (PowerOne)
467932(F = China / Fuzhou) (K = Taiwan / Kaohsiung)	BlueTek Power Inc.
465824(T = Thailand / Bang Na) (S = Germany / Soest) (H = China / Hangzhou)	Delta Electronics
471583(M = Mexico / Matamoros) (S = China / Shanghai)	GE (Lineage Power, Cherokee)
467320(C = China / Dongguan) (M = Malaysia / Penang)	Flex Power
053064 (Vertiv L = USA Lincoln Nebraska)	053064 Vertiv (L = USA Lincoln Nebraska)
038633 (S = Server Tech)	Server Tech

12 21-Digit Serial Numbers, Lot Codes, and Assembly IDs

HBAs (Supplier: JNI/AMCC)

There is one label consisting of the assembly part number, revision level, date code, Mfg site code, and serial number. The label has 21 human-readable numbers and text. Refer to *Table 12-1, JNI/AMCC HBA Number Breakdown,* below, and *Figure 12-1, Example JNI/AMCC HBA Label Information*, below.

Table 12-1 JNI/AMCC HBA Number Breakdown

Format	***Details***
Assembly part number	10-digit assembly part number
Revision code	Single-letter revision code
Date code	Four digits that identify the year and week of manufacture
Mfg site code	Single-letter Mfg site code (see *Table 12-2*, *JNI/AMCC HBA Mfg Site Codes*, on page 58.)
Serial number	5-digit serial number

Figure 12-1 Example JNI/AMCC HBA Label Information

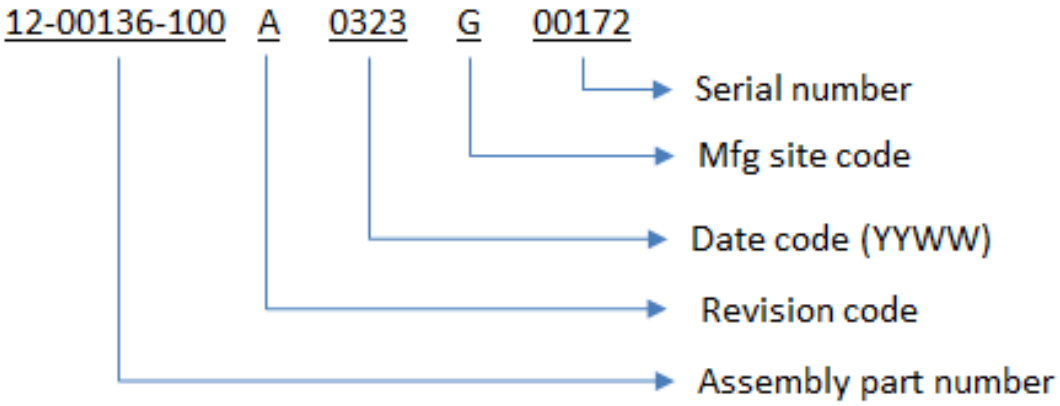


Table 12-2 JNI/AMCC HBA Mfg Site Codes

Manufacturer	***Code***
JNI Corporation	A
SMS Technologies	B
SCI Systems	C
GSS/Array	D
System Corporation	E
Corlund Electronics	G
Varian	H
Celestica China	J

Appendix A Digit Serial Numbers, Lot Codes, and Assembly IDs for Hard Disk Drive (HDD) End of Life (EOL) Products

HDD EOL (End of Life) Model Identifier Codes

Refer to *Figure 10-2, Oracle Serial Number Matrix*, on page 38, for Oracle serial number model identifier cross reference numbers for each table in this section. Also refer to *Table 10-3, Hard Drive Assembly Legend*, on page 39.

A.1 Seagate EOL Model Identifier Codes

A.1.1 Seagate 0440AMK

Table A-1 Seagate 0440AMK Model Identifier Codes

Oracle Serial Number Model Identifier	*Description*	*Seagate Model Number*	*Oracle Part Number*
2	DRV,SEA,73GB,SFF,SAS,10K2	ST973402SS	390-0323-xx
9	DRV,SEA,146GB,SFF,SAS,10K2	ST9146802SS	390-0324-xx
A	DRV,SEA,GALX750GB,SATA,7200	ST3750640NS	390-0356-xx
B	DRV,SEA,146GB,SAS,HURRICANE	ST3146356SS	390-0422-xx
C	DRV,SEA,300GB,FCAL,HURRICANE	ST3300656FC	390-0420-xx
D	DRV,SEA,450GB,FCAL,HURRICANE	ST3450856FC	390-0421-xx
R	DRV,SEA,73GB,FCAL,15K5	ST373455FC	390-0326-xx
S	DRV,SEA,146GB,FCAL,15K5	ST3146855FC	390-0328-xx
7	DRV,SEA,300GB,SFF,SAS,10K3	ST9300603SS	390-0449-xx
8	DRV,SEA,146GB,SFF,SAS,10K3	ST9146803SS	390-0448-xx
B	DRV,SEA,146GB,SAS,HURRICANE	ST3146356FC	390-0422-xx
B	Hurricane15K6,146GB FCAL	ST3146356FC	390-0419-xx
C	DRV,SEA,300GB,SAS,HURRICANE	ST3300656SS	390-0423-xx
D	DRV,SEA,450GB,SAS,HURRICANE	ST3450856SS	390-0424-xx
N	DRV,SEA,600GB,FCAL,SED,EAGLE	ST3600957FC	390-0477-xx
E	DRV,SEA,600GB,15K,3.5",SAS	ST3600057SS	390-0463-xx
E	DRV,SEA,600GB,15K,3.5",FCAL	ST3600057FC	390-0464-xx
G	DRV,SEA,300GB,15K,3.5",SAS	ST3300657SS	390-0461-xx
G	DRV,SEA,300GB,15K,3.5",FCAL	ST3300657FC	390-0462-xx
7	DRV,SEA,300GB,SFF,SAS,10K3	ST9300603SS	390-0449-xx
R	DRV,SEA,73GB,SAS,15K5	ST373455SS	390-0333-xx
R	DRV,SEA,73GB,SCSI,15K5 DRV,SEA,73GB,SCSI,D240,15K5	ST373455LC	390-0325-xx 390-0415-xx
S	DRV,SEA,146GB,SAS,15K5	ST3146855SS	390-0334-xx
S	DRV,SEA,146GB,SCSI,15K5 DRV,SEA,146GB,SCSI,D240,15K5	ST3146855LC	390-0327-xx 390-0416-xx
T	DRV,SEA,300GB,SAS,15K5 DRV,SEA,300GB,SAS,15K5	ST3300655SS	390-0335-xx 7010282
T	DRV,SEA,300GB,SCSI,15K5	ST3300655LC	390-0329-xx
T	DRV,SEA,300GB,FCAL,15K5	ST3300655FC	390-0330-xx
V	DRV,SEA,73G15K1,SFF,SAS	ST973451SS	390-0382-xx
X	DRV,SEA TRC,400GB10K,SAS	ST3400755SS	390-0397-xx
X	DRV,SEA TRC,400GB10K,FCAL	St3400755FC	390-0396-xx
Unassigned Codes: 0, 1, 3, 4, 5, 6, H, J, K, L, M, P, Q, Y, Z			

A.1.2 Seagate 0440KOR

Table A-2 Seagate 0440KOR Model Identifier Codes

Oracle Serial Number Model Identifier	Description	Seagate Model Number	Oracle Part Number
A	DRV,SEA,GALX750GB,SATA,7200	ST3750640NS	390-0356-xx
B	DRV,SEA,GALX250GB,SATA,7200	ST3250820NS	390-0354-xx
C	DRV,SEA,GALX500GB,SATA,7200	ST3500630NS	390-0355-xx
5	DRV,SEA,MOOSE,1TB,SATA,7200	ST31000340NS	390-0414-xx
6	DRV,SEA,MOOSE750GB,SATA,7200	ST3750330NS	390-0413-xx
7	DRV,SEA,MOOSE500GB,SATA,7200	ST3500320NS	390-0412-xx
8	DRV,SEA,MOOSE250GB,SATA,7200	ST3250310NS	390-0411-xx
5	DRV,1TB,SAS,7200RPM,SEA,MOOSE	ST31000640SS	390-0438-xx
8	DRV,DRV,SEA,146GB,15K4,4GBIT,F	ST3146954FC	390-0299-xx
H	DR,1TB,7200RPM3.5"SATA,MSKI	ST31000524NS	390-0473-xx
J	DR,2TB,7200RPM3.5"SATA,MSKI	ST32000644NS	390-0474-xx
K	DR,1TB,7200RPM3.5"SAS,MSKI	ST31000424SS	390-0475-xx
L	DR,2TB,7200RPM3.5"SAS,MSKI	ST32000444SS	390-0476-xx
M	DRV,SEA,DRA3GBSATA,500G7.2K,SF	ST9500530NS	390-0468-xx
M	DRV,SEA,DRA3GBSATA,500G7.2K,SF	ST9500530NS	390-0468-xx
5	DRV,SEA,MOOSE,1TB,SATA,7200	ST31000340NS	390-0414-xx
M	DRV,160GB,SEA,SATA,ROHS,7200	ST3160812AS	390-0318-xx
R	DRV,SG,500GB,SATA,SFF,AIRWALKE	ST9500620NS	390-0492-xx
S	DR,3TB,3.5"SAS/7200,Manta Ray	ST33000650SS	7010033
T	OEM DR,3TB,3.5"SAS/7200,Manta Ray	ST33000650SS	7010033
Unassigned Codes: 0, 1, 2, 3, 4, 9, D, E, F, Q, V, W, X, Y, Z			

A.1.3 Seagate 0440WUX

Table A-3 Seagate 0440WUX Model Identifier Codes

Oracle Serial Number Model Identifier	Description	Seagate Model Number	Oracle Part Number
A	DRV,SEA,GALX750GB,SATA,7200	ST3750640NS	390-0356-xx
B	DRV,SEA,GALX250GB,SATA,7200	ST3250820NS	390-0354-xx
C	DRV,SEA,GALX500GB,SATA,7200	ST3500630NS	390-0355-xx
M	DRV,160GB,SEA,SATA,ROHS,7200	ST3160812AS	390-0318-xx
Q	DRV,SEA,TNKII,400GB,SATA,7200	ST3400833NS	390-0286-xx
Y	DRV,SEA,TNKII,82GB,SATA,7200	ST3808110AS	390-0242-xx
Z	DRV,SEA,TNKII250GB,SATA,7200	ST3250824NS	390-0243-xx
5	DRV,SEA,MOOSE,1TB,SATA,7200	ST31000340NS	390-0414-xx
Unassigned Codes: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, G, H, J, K, L, N, P, R, S, T, V, W, X			

A.1.4 Seagate 0440772

Table A-4 Seagate 0440772 Model Identifier Codes

Oracle Serial Number Model Identifier	*Description*	*Seagate Model Number*	*Oracle Part Number*
0	DRV,SEA,36GB,SFF,SAS,10KRPM	ST936701SS	390-0208-xx
1	DRV,SEA,73GB,SFF,SAS,10KRPM	ST973401SS	390-0213-xx
6	DRV,SEA,36GB,15K,SCSI4,ROHS	ST336754LC	390-0199-xx
6	DRV,SEA,36GB,15K,FCAL ROHS DRV,SEA,36GB,15K,FCAL,T3,ROHS	ST336754FC ST336754FC	390-0187-xx, 390-0190-xx
7	DRV,SEA,73GB,15K,FCAL ROHS	ST373454FC	390-0193-xx
8	DRV,SEA,146GB,3.5,SAS,15K	ST3146854SS	390-0234-xx
8	DRV,SEA,146GB,15K,FCAL ROHS	ST3146854FC	390-0196-xx
A	DRV,SEAGATE,3610K 1",FCAL	ST336607FC	390-0137-xx
3	DRV,SEA,73GB,10K,1"SCSI4	ST373207LC	390-0174-xx
A	DRV,SEAGATE,3610K 1",FCAL	ST336607FC	390-0137-xx
	DRV,SEA,73GB10K,SCSI4,ROHS		390-0275-xx
3	DRV,SEA,73GB,10K,FCAL,NON T3DRV,SEA,73GB,10K,FCAL,T3 DRV,SEA,73GB10K,FCAL,T3,ROHS DRV,SEA,73GB10K,FCAL,ROHS	ST373207FC	390-0165-xx, 390-0168-xx 390-0278-xx 390-0279-xx
4	DRV,SEA,146GB,10K,1"SCSI4 DRV,SEA,146GB10K,SCSI4,ROHS	ST3146707LC	390-0177-xx 390-0276-xx
4	DRV,SEA,146GB,10K,FCAL,NON T3	ST3146707FC	390-0171-xx
4	DRV,SEA,146GB10K,FCAL,ROHS	ST3146707FC	390-0280-xx
5	DRV,SEA,300GB,10K,SCSI DRV,SEA,300GB10K,SCSI4,ROHS	ST3300007LC	390-0184-xx 390-0277-xx
5	DRV,SEA,300GB,10K,FCAL,NON T3 DRV,SEA,300GB10K,FCAL,ROHS	ST3300007FC	390-0181-xx 390-0281-xx
7	DRV,SEA,73GB,15K,SCSI4,ROHS	ST373454LC	390-0202-xx
7	DRV,DRV,SEA,73GB,15K4,4GBIT,FC	ST373554FC	390-0300-xx
8	DRV,SEA,146GB,3.5,SAS,15K,NOE	ST31465854SS	390-0338-xx
8	DRV,SEA,146GB,15K,SCSI4,ROHS	ST3146854LC	390-0205-xx
8	DRV,DRV,SEA,146GB,15K4,4GBIT,F	ST3146954FC	390-0299-xx
Unassigned Codes: 2, 9, A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, V, X, Y, Z			

A.1.5 Seagate 0020772

Table A-5 Seagate 0020772 Model Identifier Codes

Oracle Serial Number Model Identifier	*Description*	*Seagate Model Number*	*Oracle Part Number*
A	DRV,SEA,36GB,10K,1"SCSI4 Note: Spindle motor change	ST336607LC	390-0109-xx 390-0160-xx
A	DRV,SEAGATE,3610K 1",FCAL CHEE DRV,SEA,36GB,10K,1" FCAL T3	ST336607FC	390-0137-xx, 390-0138-xx
B	DRV,SEA,73GB,10K,1"SCSI4 Note: Spindle motor change	ST373307LC	390-0106-xx 390-0159-xx
B	DRV,SEA,73GB,10K,1" FCAL T3 DRV,SEA,73GB,10K,1" FCAL	ST373307FC	390-0115-xx 390-0121-xx
C	DRV,SEAGATE,146GB,10RPM,SCS,1"	ST3146807LC	390-0145-xx
C	DRV,SEA,146GB,10K,1" FCAL T3	ST3146807FC	390-0118-xx
D	DRV,SEA,36GB 10K,1" SCSI	ST336704LC	390-0050-xx
D	DRV,SEA,36GB 10K,1"FCAL DRV,SEA,36GB10K,1"FCAL,PURP	ST336704FC	390-0035-xx 390-0056-xx
E	DRV,SEA,73GB 10K,1.6" FCAL	ST173404FC	390-0036-xx
F	DRV,SEA,36GB,15K,1"FCAL DRV,SEA,36GB,15K,1"FCAL T3	ST336752FC	390-0099-xx 390-0101-xx
G	DRV,SEA,180GB,7200RPM,1.6",FCA	ST1181677FC	390-0102-xx
H	DRV,SEA,36GB,15K,1"SCSI4	ST336753LC	390-0131-xx
H	DRV,SEA,36GB,15K,1"FCAL -S&P DRV,SEA,36GB,15K,1"FCAL -T3	ST336753FC	390-0130-xx 390-0127-xx
J	DRV,SEA,73GB,15K,1",SCSI	ST373453LC	390-0143-xx
J	DRV,SEA,73GB,15K,1",FCAL,S&P	ST373453FC	390-0144-xx
K	DRV,SEA,18GB,10K,1"SCSI,CHT5	ST318305LC	390-0085-xx
K	DRV,SEA,73GB,10K,1"FCAL DRV,SEA,73GB,10K,1"FCAL -T3	ST373405FC	390-0071-xx 390-0073-xx
L	DRV,SEA,18GB 10K,1"FCAL DRV,SEA,18GB,10K 1"FCAL,PURP	ST318304FC	390-0034-xx 390-0053-xx
P	DRV,SEA,36GB,10K,1"SCSI3	ST336605LC	390-0069-xx
P	DRV,SEA,36GB,10K,1"FCAL DRV,SEA,36GB,10K,1"FCAL -T3	ST336605FC	390-0070-xx 390-0072-xx
T	DRV,SEA,18GB 10K,1" SCSI	ST318404LC	390-0038-xx
V	DRV,SEA,9GB 10K,1" SCSI	ST39204LC	390-0037-xx
Unassigned Codes: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, M, N, Q, R, S, W, X,Y, Z			

A.1.6 Seagate 0440SZT

Table A-6 Seagate 0440SZT HDD Model Identifier Codes

Oracle Serial Number Model Identifier	*Description*	*Seagate Model Number*	*Oracle Part Number*
7	10K3 2.5 Firefly 300GB SASDRV,SEA,300GB,SFF,SAS,10K3	ST9300603SS	390-0449-xx
8	DRV,SEA,146GB,SFF,SAS,10K3	ST9146803SS	390-0448-xx
E	DRV,SEA,600GB,15K,3.5",SAS	ST3600057SS	390-0463-xx
E	DRV,SEA,600GB,15K,3.5",FCAL	ST3600057FC	390-0464-xx
N	DRV,SEA,600GB,FCAL,SED,EAGLE	ST36000957FC	390-0477-xx
G	DRV,SEA,300GB,15K,3.5",SAS	ST3300657SS	390-0461-xx
G	DRV,SEA,300GB,15K,3.5",FCAL	ST3300657FC	390-0462-xx
P	DRV,SG,600GB,SFF,SAS, COMPASS	ST9600205SS	390-0491-xx
Q	DRV,SG,300GB,SFF,SAS,COMPASS	ST9300605SS	390-0490-xx
R	DRV,SEA,73GB,SCSI,15K5 DRV,SEA,73GB,SCSI,D240,15K5	ST373455LC	390-0325-xx 390-0415-xx
S	DRV,SEA,146GB,SAS,15K5	ST3146855SS	390-0334-xx
S	DRV,SEA,146GB,SCSI,15K5 DRV,SEA,146GB,SCSI,D240,15K5	ST3146855LC	390-0327-xx 390-0416-xx
T	DRV,SEA,300GB,SAS,15K5 DRV,SEA,300GB,SAS,15K5	ST3300655SS	390-0335-xx 7010282
T	DRV,SEA,300GB,SCSI,15K5	ST3300655LC	390-0329-xx
T	DRV,SEA,300GB,FCAL,15K5	ST3300655FC	390-0330-xx
Unassigned Codes: 0, 1, 2, 3, 4, 5, 6, 9, A, B, C, D, H, J, K, L, M, N, R, S, T, V, W, X, Y, Z			

A.2 Fujitsu EOL Model Identifier Codes

A.2.1 Fujitsu 0195FCP

Table A-7 Fujitsu 0195FCP Model Identifier Codes

Oracle Serial Number Model Identifier	*Description*	*Fujitsu Model Number*	*Oracle Part Number*
A	DRV,FUJ,73GB,SFF,SAS,AL10SE	MBB2073RC	390-0374-xx
B	DRV,FUJ,73GB,10K,FCAL,NON T3 DRV, FUJ,73GB,10K,FCAL T3 DRV, FUJ,73GB,10K,FCAL,ROHS	MAT3073FC MAW3073FC MAW3073FC	390-0166-xx, 390-0169-xx, 390-0256-xx
B	DRV,FUJ,73GB,10K,1"SCSI4 DRV,FUJ,73GB,10K,SCSI4,ROHS	MAT3073NC MAW3073NC	390-0175-xx, 390-0252-xx
C	DRV,FUJ,146GB,10K,FCAL,NON T3 DRV,FUJ,146GB,10K,FCAL,ROHS	MAT3147FC MAW3147FC	390-0172-xx 390-0257-xx
C	DRV,FUJ,146GB,10K,1"SCSI4 DRV, FUJ,146GB,10K,SCSI4,ROHS	MAT3147NC MAW3147NC	390-0178-xx, 390-0253-xx
D	DRV,FUJ,300GB,10K,FCAL,NON T3 DRV,FUJ,300GB,10K,FCAL,ROHS	MAT3300FC MAW3300FC	390-0182-xx, 390-0258-xx
D	DRV,FUJ,300GB,10K,SCSI DRV,FUJ,300GB,10K,SCSI4,ROHS	MAT3300NC MAW3300NC	390-0185-xx, 390-0254-xx
E	DRV,FUJ,36GB,15K,FCAL NON T3 DRV,FUJ,36GB,15K,FCAL,T3 DRV,FUJ,36GB,15K,FCAL,ROHS	MAU3036FC MAU3036FC MAX3036FC	390-0188-xx, 390-0191-xx, 390-0262-xx
E	DRV,FUJ,36GB,15K,SCSI4 DRV,FUJ,36GB,15K,SCSI4,ROHS	MAU3036NC MAX3036NC	390-0200-xx, 390-0259-xx
F F	DRV,FUJ,73GB,15K,FCAL NON T3 DRV,FUJ,73GB,15K,FCAL,ROHS	MAU3073FC MAX3073FC	390-0194-xx, 390-0263-xx
F	DRV,FUJ,73GB,15K,FCAL4	MAX3073FD	390-0312-xx
F	DRV,FUJ,73GB,15K,SCSI4 DRV,FUJ,73GB,15K,SCSI,ROHS	MAU3073NC MAX3073NC	390-0203-xx, 390-0260-xx
G	DRV,FUJ,146GB,15K,FCAL NON T3 DRV,FUJ,146GB,15K,FCAL,ROHS	MAU3147FC MAX3147FC	390-0197-xx, 390-0264-xx
G	DRV,FUJ,146GB,15K,FCAL4	MAX3147FD	390-0313-xx
G	DRV,FUJ,146GB,15K,SCSI4 DRV,FUJ,146GB,15K,SCSI4,ROHS	MAU3147NC MAX3147NC	390-0206-xx, 390-0261-xx
H	DRV,FUJ,146GB,SFF,SAS,AL10SE	MBB2147RC	390-0375-xx
A	DRV,FUJ,73GB,SFF,SAS,AL10SE	MBB2073RC	390-0374-xx
S	DRV,FUJ,73GB,SFF,SAS,10KRPM DRV,FJ,73GB,ROHS,SFF,SAS,10K	MAV2073RC MAY2073RC	390-0211-xx, 390-0285-xx
Unassigned Codes: 2, 3, 4, 5, 6, 7, 8, 9, N, P, Q, R, V, Z, X			

A.2.2 Fujitsu 0195FTC

Table A-8 Fujitsu 0195FTC Model Identifier Codes

Oracle Serial Number Model Identifier	Description	Fujitsu Model Number	Oracle Part Number
H	DRV,FUJ,40GB,5400,2.5,SATA,MOB	MHT2040BS	390-0215-xx
J	DRV,30GB FJ PATA,2.5",5400 RPM	MHT2040AS	390-0222-xx
K	DRV,FUJ,60GB,5400,2.5,SATA,MOB	MHT2060BS	390-0216-xx
G	DR,200GB/5400RPM,2.5",SATA,M12	MHY2200BS	390-0407-xx
Unassigned Codes: 3, 4, 5, 6, 7, 8, 9, B, C, D, E, F, G, L, M, N, P, Q, R, S, T, V, W, X, Y, Z			

A.2.3 Fujitsu 0066152

Table A-9 Fujitsu 0066152 Model Identifier Codes

Oracle Serial Number Model Identifier	Description	Fujitsu Model Number	Oracle Part Number
3	9GB,7200,1",USCSI,FJ,AL5,DRV	MAE3091LC	390-0004-xx
4	9GB, 10K, 1",USCSI,FJ,AL5,DRV	MAG3091LC	390-0005-xx
5	DRV,FUJ,18GB,10K,1",USCSI,AL5	MAG3182LC	390-0006-xx
6	DRV,FUJ,AL5,36G 10K 1.6" USCSI	MAF3364LC	390-0014-xx
7	DRV,FUJ,36GB,15K,1"FCAL-T3 DRV,FUJ,36GB,15K,1" FCAL2	MAS3367FC	390-0150-xx, 390-0151-xx
7	DRV,FUJ,36GB,15K,1"SCSI4	MAS3367NC	390-0132-xx
8	DRV,FUJ,73GB,15K,1"FCAL2	MAS3735FC	390-0152-xx
8	DRV,FUJ,73GB,15K,1" SCSI4	MAS3735NC	390-0153-xx
M	DRV,FUJ,36GB 10K,1" SCSI FJ,36GB 10K 1" TOGO DRV	MAJ3364MC	390-0051-xx, 390-0059-xx
N	DRV,FJ,36GB,10K,1"SCSI4 DRV,FJ,36GB,10K1"SCSI4-T485-61	MAP3367NC	390-0110-xx, 390-0156-xx
P	DRV,FUJ,18GB 10K,1" SCSI FJ 18GB 10K 1" TOGO DRV	MAJ3182MC	390-0043-xx, 390-0060-xx
Q	DRV,FJ,73GB,10K,1" FCAL T3 DRV,FJ,73GB,10K, 1" FCAL	MAP3735FC	390-0116-xx, 390-0122-xx
Q	DRV,FJ,73GB,10K,1"SCSI4 DRV,FJ,73GB,10K 1" SCSI4-T485-61	MAP3735NC	390-0107-xx, 390-0157-xx
R	DRV,FJ,146GB,10K,1" FCAL T3 DRV,FJ,146GB,10K,1" FCAL	MAP3147FC	390-0113-xx, 390-0119-xx
R	DRV,FUJ,146GB,10K,1",SCSI4	MAP3147NC	390-0154-xx
V	DRV,FJ,36GB,10K,1"SCSI3	MAN3367MC	390-0065-xx
X	DRV,FJ,36G,10K,1",FCAL-T3,AL7	MAN3367FC	390-0095-xx
X	DRV,FJ,73G,10K,1",FCAL-T3,AL7 DRV,FJ,73G,10K,1",FCAL,AL7	MAN3735FC	390-0096-xx, 390-0098-xx
Z	DRV,FJ,18GB,10K,1"SCSI3	MAN3184MC	390-0066-xx
Unassigned Codes: 0, 1, 2, 9, A, B, C, D, E, F, G, H, J, K, L, S, T, W, Y			

A.3 Hitachi EOL Model Identifier Codes

NOTE 12: Since the Hitachi HDD Division was sold to Western Digital (WD), the current generation of drives will be labeled HGST, but the EOL drives will remain labeled as Hitachi.

A.3.1 Hitachi 1308SGP

Table A-10 Hitachi 1308SGP Model Identifier Codes

Oracle Serial Number Model Identifier	*Description*	*Hitachi Model Number*	*Oracle Part Number*
A	DRV,HTH,V-B,73GB15K,SAS	HUS153073VLS300	390-0370-xx
A	DRV,HTH,V-B,73GB15K,SCSI	HUS153073VL3800	390-0360-xx
A	DRV,HTH,V-B,73GB15K,FC4	HUS153073VLF400	390-0364-xx
A	DRV,HTH,V-B,73GB15K,D240	HUS153073VL3800	390-0417-xx
B	DRV,HTH,V-B,146GB15K,SAS	HUS153014VLS300	390-0371-xx
B	DRV,HTH,V-B,146GB15K,SCSI	HUS153014VL3800	390-0361-xx
B	DRV,HTH,V-B,146GB15K,D240	HUS153014VL3800	390-0418-xx
B	DRV,HTH,V-B,146GB15K,FC4	HUS153014VLF400	390-0365-xx
C	DRV,HTH,V-B,300GB15K,SAS	HUS153030VLS300	390-0372-xx
C	DRV,HTH,V-B,300GB15K,SCSI	HUS153030VL3800	390-0362-xx
R	DRV,HTH,73GB10K,SCSI4,ROHS	HUS103073FL3800	390-0265-xx
T	DRV,HTH,146GB10K,SCSI4,ROHS	HUS103014FL3800	390-0266-xx
R	DRV,HTH,73GB10K,FCAL,ROHS	HUS103073FLF210	390-0269-xx
T	DRV,HTH,146GB10K,FCAL,ROHS	HUS103014FLF210	390-0270-xx
V	DRV,HTH,300GB10K,FCAL,ROHS	HUS103030FLF210	390-0271-xx
C	DRV,HTH,V-B,300GB15K,FC4	HUS153030VLF400	390-0366-xx
D	DRV,HTH,73GB,SFF,SAS,COBRA-B	HUC101473CSS300	390-0376-xx
E	DRV,HTH,146GB,SFF,SAS,COBRA-B	HUC101414CSS300	390-0377-xx
F	DRV,HTH,146GB,SFF,SAS,COBRAC	HUC103014CSS600	390-0450-xx
G	DRV,HTH,300GB,SFF,SAS,COBRAC	HUC103030CSS600	390-0451-xx
H	DRV,HIT,VIPERC,300GB,FCAL,15K	HUS156030VLF400	390-0482-xx
H	DRV,HIT,VIPERC,300GB,SAS,15K	HUS156030VLS600	390-0482-xx
K	DRV,HIT,VIPERC,600GB,FCAL,15K	HUS156060VLF401	390-0484-xx
K	DRV,HIT,VIPERC,600GB,SAS,15K	HUS156060VLS600	390-0483-xx
P	DRV,HIT,73GB,15K,SCSI4ROHS	HUS151473VL3800	390-0204-xx
R	DRV,HIT,73GB,10K,1"SCSI4	HUS103073FL3800	390-0176-xx
R	DRV,HIT,73GB,10K,FCAL,NON T3 DRV,HITACHI,73GB,10K,FCAL,T3	HUS103073FLF210	390-0167-xx, 390-0170-xx
T	DRV,HIT,146GB,10K,1"SCSI4	HUS103014FL3800	390-0179-xx
C	DRV,HTH,V-B,300GB15K,FC4	HUS153030VLF400	390-0366-xx
T	DRV,HIT,146GB,10K,FCAL,NON T3	HUS103014FLF210	390-0173-xx
X	DRV,HIT,36GB,15K,SCSI4ROHS	HUS151436VL3800	390-0201-xx
Z	DRV,HIT,146GB,15K,SCSI4ROHS	HUS151414VL3800	390-0207-xx
Unassigned Codes: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, J, L, M, N, S, W, U, Y			

A.3.2 Hitachi 1308PRB

Table A-11 Hitachi 1308PRB Model Identifier Codes

Oracle Serial Model Identifier	Description	Hitachi Model Number	Oracle Part Number
F	DRV,HTH,400GB,SATA,7200RPM	HDS724040KLSA80	390-0214-xx
K	DRV,HTH,KURO2,500GB,SATA,7200	HDS725050KLA360	390-0247-xx
K	DRV,HTH,KURO2,500GB,SATA,4.1	HDS725050KLA360	390-0384-xx
M	DRV, HTH,JUPK,2TB,SATA,7200	H7220AA30	390-0467-xx
G	DRV,HTH,GEMI,1TB,SATA,7200RPM	HUA721010KLA330	390-0381-xx
H	DRV,HTH,GEMI,750GB,SATA,7200RP	HUA721075KLA330	390-0379-xx
J	DRV,HTH,GEMI,500GB, SATA,7200R	HUA721050KLA330	390-0383-xx
L	DR,500GB/5400RPM,2.5",SATA,BK	HTE5450SA	390-0433-xx
N	DRV,HIT,300GB,SFF,SAS,COBRAD	HUC106030CSS600	390-0487-xx
P	DRV,HIT,600GB,SFF,SAS,COBRAD	HUC106060CSS600	390-0488-xx
Q	DR,2TB,3.5"SAS/7200,MarsK	HUS723020ALS640	7025852
R	HDD,3TB,3.5",SAS/7200rpm,PI-Type0,MarsK	HUS723030ALS640	7021037
R	HDD,3TB,3.5",SAS/7200rpm,PI-Type1,MarsK	HUS723030ALS640	7048503
Unassigned Codes: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, S, T, V, W, X, Y, Z			

A.3.3 Hitachi 1308EST

Table A-12 Hitachi 1308EST Model Identifier Codes

Oracle Serial Number Model Identifier	Description	Hitachi Model Number	Oracle Part Number
L	DRV,HTH,PHT,80GB,SATA,7200RPM	HDS728080PLA380	390-0245-xx
M	DRV,HTH,PHT,80GB,SATA,7200RPM DRV,HTH,PHT,80GB,ELBL,SATA	HDS728080PLA380	390-0302-xx, 390-0303-xx
Q	DRV,HTH,PF2,160GB,SATA,7200RPM	HDS721616PLA380	390-0351-xx
Unassigned Codes: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, G, H, J, K, N, P, R, S, T, V, W, X, Y, Z			

A.3.4 Hitachi 0001308

Table A-13 Hitachi 0001308 Model Identifier Codes

Oracle Serial Number Model Identifier	Description	Hitachi Model Number	Oracle Part Number
S	DRV,HTH,36GB,10K,1"SCSI4	DK32EJ- 36NC	390-0111-xx
S	DRV,HTH,36GB,10K,1" FCAL	DK32EJ- 36FC	390-0146-xx
W	DRV,HTH,73GB,10K,1"SCSI4	DK32EJ- 72NC	390-0108-xx
W	DRV,HTH,73GB,10K,1" FCAL T3 DRV,HTH,73GB,10K,1" FCAL	DK32EJ- 72FC	390-0117-xx, 390-0123-xx
Y	DRV,HTH,146GB,10K,1",SCSI4	DK32EJ- 14NC	390-0155-xx
Y	DRV,HTH,146GB,10K,1" FCAL	DK32EJ- 14FC	390-0120-xx
Unassigned Codes: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, T, V, X, Z			

A.3.7 Hitachi 1308UTC

Table A-14 Hitachi 1308UTC Model Identifier Codes

Oracle Serial Number Model Identifier	Description	Hitachi Model Number	Oracle Part Number
B	DRV,HTH,V5,250GB,SATA,7200RPM	HDT725025VLA380	390-0352-xx
D	DRV,HTH,250GB,SATA,7200RPM	HDS722525VLS80	390-0164-xx
G	DRV,160GB,HIT,SATA,ROHS,7200	HDT722516DLA380	390-0317-xx
N	DRV,HTH,VAN4,250GB,SATA,7200 DRV,HTH,VAN4,250GB,ELBL,7200	HDT722525DLA380	390-0246-xx, 390-0295-xx
Unassigned Codes: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, C, E, F, H, J, K, L, M, P, Q, R, S, T, V, W, X, Y			

A.3.8 Hitachi 1308GSP

Table A-15 Hitachi 1308GSP Model Identifier Codes

Oracle Serial Number Model Identifier	Description	Hitachi Model Number	Oracle Part Number
A	DRV,HIT,JUP-U,1TB,SATA,7200	H7210CA30	390-0479-xx

A.4 Western Digital 465064M

Table A-16 Western Digital 465064M Model Identifier Codes

Oracle Serial Number Model Identifier	***Description***	***Western Digital Model Number***	***Oracle Part Number***
A	Drive, 500GB, SATA, 2.5", 10Krpm, WD	WD500BLHXSUN500G	7042764
Unassigned Codes: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z			

Reference Information

Reference Documents and Records

Document Title	Number	ESO Controlled[6]	
		Yes	No
WWOPS Quality: Setting the Serial-Control Attribution in Agile PLM and GSI	923-3666-xx	x	
Corp: Part Number, Revision, and Interchangeability Conventions for Orderable and Manufacturing Items	990-1241-xx	x	
Corporate FRU ID: SEEPROM Programming Overview and Procedures for FRU Vendors	950-3757-xx		x
JEDEC Standard Manufacturer's Identification Code order form: http://www.jedec.org/standards-documents/id-codes-order-form	N/A		x
JEDEC JEP 106	N/A		x
Standard EIA 476	N/A		x
Standard ISO 8601	N/A		x

Document History and Approvals

Dash	Rev	Date	Description of Change	Originator
01	A	30 Jan 2004	Initial release.	N/A
02	A	08 Mar 2004	Updated *Dynamic Random Access Memory (DRAM) Modules* section.	N/A
03	A	30 Apr 2004	Updated with information for host bus adapters, GBICs, and Starcat supplier vendor codes.	N/A
04	A	20 Aug 2004	Updated document.	N/A
05	A	08 Nov 2004	Updated hard drive tables in *Section 9*, added sections on removable media and Sun tape drives.	N/A
06	A	15 Feb 2005	Updated information for models H, J, K in *Table 32*.	N/A
07	A	15 Jun 2005	Added *Figure 17* to show HDD part number change process. Updated *Tables 7*, *30*, *31*, *32*, and *33*.	N/A
08	A	12 Sept 2005	Updated *Tables 31* and *33*.	N/A
09	A	11 Nov 2005	Updated *Tables 25*, *31*, and *33*.	N/A
10	A	06 Mar 2006	Updated *Title*, Overview, Introduction, *Process Overview*, *Format Overview*, and all headings.	N/A
11	A	02 Jun 2006	Created new sections and sub-sections in *Section 9* for all hard drive model number matrixes.	N/A
12	A	02 Nov 2006	Updated *Tables 4-5*, *10-2*, *10-4*, *10-5*, *10-6*, *10-7*, *10-8*, *10-9*, *10-10*, *10-11*, *10-12*, *10-13*, and *10-14*. Corrected all cross-references. Added DIMM section.	N/A
13	A	28 Feb 2007	Updated *Tables 4-5*, *10-2*, *10-7*, *10-8*, *10-9*, and *10 13*.	N/A

[6] All references to documents controlled by Engineering Services were current when this document was released.

All hard copies of this document are to be used for reference only.

14	A	27 Jun 2007	Updated *Tables 10-5*, *10-8*, and *10-9*. Added *Tables 10-6* and 9-6 and *Section 9-4*.	N/A
15	A	17 Sep 2007	Updated *Table 9-6*.	N/A
16	A	30 Nov 2007	Added new *Notes 3*, *5*, *6*, and *8*.	N/A
17	A	28 Mar 2008	Added additional models to Hitachi and Seagate Hard Disk Drive tables.	N/A
18	A	11 Sept 2008	Added updates to Seagate HDD. Added new section on JDSU serial number format.	N/A
19	A	19 Jan 2009	Updated *Section 11.2* and *Table 11-7,* and made editorial amendments.	N/A
20	A	17 Apr 2009	Updated *Tables 10-6*, *10-7*, *10-8*, *10-9,* and *10-16*, and added *Table 10-4*.	N/A
21	A	15 Dec 2009	Modified the *Introduction*, changed the *WWOPS Supply Engineering: Supplier Traceability Requirements*, 923-3406-xx reference to *WWOPS Quality: Policy and Procedure for Setting Serialization Attribute in Oracle 11i*, 923-3666-xx, and inserted *Notes 2* and *3* into *Section 2.1*.	N/A
22	A	25 Feb 2010	Updated *Table 11.7* contents, amended all cross references and images.	N/A
23	A	17 Jun 2010	Updated to the new Oracle template. Added China vendor code in *Table 10-2*. Added new product and part numbers in *Tables 10-7* and *10-16*. Created *Section 10.1.1.6* and *Table 10-10*. Also updated *Tables 10-8* and *10-9*.	N/A
24	A	14 Jan 2011	Updated *Sections 2* and *11.1.4* and changed all occurrences of 'Sun' to 'Oracle' throughout the document.	N/A
25	A	16 Mar 2011	Updated *Step 2* of *Section 2.1* and the content of the sections describing the serial numbers, lot codes, and assembly IDs of mouse devices, displays, keyboards, and power supplies.	N/A
26	A	15 Nov 2011	Updated *Tables 10-6*, *10-7*, *10-8*, *10-9*, *10-10*, *10-11*, *10-15*, *10-16*, *10-17*, *10-18*, *10-19*, and *10-20*, removed the Oracle Assembly Part Numbers column from all the tables in *Section 10.1*, and inserted *Table 10-4* and *Note 7* into *Section 10.1*.	N/A
27	A	02 Mar 2012	Added two more capacity values to *Table 11-6*. Added new Oracle PNs and/or HDD model numbers to *Tables 10-9* and *10-11*. Updated *Tables 10-18*, *10-20*, and *11-7*. Added new Hitachi, Western Digital, and Toshiba HDD codes to *Table 10-2*. Added *Tables 4-3* and *4-4* on Teac RM-ODD Matrices. Added *Sections 10.1.3.7*, *10.1.4*, and *10.1.5*.	N/A

Agile History			
Rev	***Date***	***Description of Change***	***Originator***
28	3 Oct 2012	Additions and changes to HDD Serial Number Matrix. Moved the EOL products to Appendix A.	N/A
29	29 Apr 2013	This revision included additions and changes to the Embedded Serial Numbers for HDD Products and Site Locations, flash changes included new coding descriptions, JEDEC ID Codes were updated and changed Supplier Name Hynix to SK Hynix. Added Intel Talorsville models to Table 11-7. Added HGST codes to Table 10-2. Updated Hitachi codes in Section 10.1.2.3. Added Infineon to Table 11-6.	N/A
30	27 Sep 2013	Added Viking to Table 11-6 and added second part number to HGST Cobra EP 1.2TB SAS	N/A
31	04 April 2014	Corrected/Added Part Numbers and changed descriptions to section 10 Hard Disk Drives. Also moved remaining Seagate products to EOL section (Appendix A). Updated name from Hitachi to HGST on current generation drives.	N/A

32	20 May 2014	Updated Table 11-7 NAND Flash Product Codes for NPI Intel and HGST drives. Updated Table 10-8 to remove 'J' as unassigned code for HDD as now used on SSD's. Updated Tables 2-1 through 2-4 to allow serial numbers, assembly IDs and Mfg TNs to contain a dash (or +) as a separating character. even if they include a vendor code from GSI or are used to identify parts having non-significant (7xxxxxx) part numbers. Modified the note below Table 2-1, which advises that Tekelec and Acme are producing serial numbers which do not meet this spec. Added Cobra F information to the HGST. Delete letter F, G, H, I, J, K and L from the unassigned codes in Table 10-8 (HGST 464151S or 464151T Model Identifier Codes). Updated Table 11-7 rows 5 and 6 Column C and added new line, HGST 1.6TB 2.5" SunsetCove Plus HUSMR1616ASS200 / 0B32206 7094629 J9. Removed reference to Livelink. Added 390-0172-xx to Table A-6.	N/A
33	5 Aug 2014	Added ATP Electronics to Table 11-6. Removed Cobra F 1.8T SAS from Table 10-6 and updated Hitachi 1308SGP and HGST 1308SGP Codes tables. Moved HGST 1308PRB and HGST 1308SGP to EOL Section (in Appendix A). Removed references to 990-1242.	N/A
34	31 Mar 2015	Added Unigen XX Code (U) to Table 11-6 (XX Code Definitions). Added row for new HGST SSD (1.6TB 2.5" SunsetCove Plus FIPS) in Table 11-7 (NAND Flash Product Code Definition (X or XX).	N/A
35	31 Mar 2015	Correct revision only; no content change.	N/A
36	8 July 2015	Added new HGST part numbers in Table 10-6 (HGST 464151S or 464151T Model Identifier Codes). Updated Appendix A – removed part numbers from HDD EOL that were either duplicates or non-released parts. Added the use of 2D barcode label for Samsung and Hynix and dropped the use of Mfg TN label starting with DDR3, DIMM date code WW1340 (Section 2.4 and new Section 11.1.5).	N/A
37	22 Oct 2015	Added Samsung products to Table 11-7, NAND Flash Product Code Definition (X or XX). Added Model ID "D" to Table 4-4, Teac, Vendor Number 464808C, RM-ODD Matrix and added Model ID "2 & 4" to Section 10.1.1.1 HGST 464151S or 464151T.	N/A
38	19 Aug 2016	Update Table 11-7, NAND Flash Product Code Definition (X or XX). Remove link to EIA weekly date code. Update internal manufacturing note at the end of Table 2-1 to reflect non-standard SN format.	N/A
39	17 Mar 2017	Update information for 2.xTB BearCove SSD for ODA to TBD for the Supplier, Supplier Part Number, Oracle Part Number columns, and Intel parts in Table 11-7. Added SSD, 6.4TB, SFF-2.5", 1725A NVMe1.2 x4 part information to Table 11-7. Added Libra Products to Table 10-6.	N/A
40	19 May 2017	Added SSD, 6.4TB, SFF-2.5", 1725A NVMe1.2 x4 part information to Table 11-7. Added EM site ID to table 10-4, and added a new Hard Drive to Table 10-6.	N/A
41	25 May 2017	Turn off Track Changes function to remove redlines from Revision 40. No content changes made.	N/A

42	22 Sep 2017	Updated Table 11-7 (added HGST parts JE, JF, and JG and Samsung parts KF; also corrected 480GB pn). Updated Table 10-6 (Added V, U, Q, and T).	N/A
		Fusion History	
43	21 Jan 2019	Updated Table 11-7 (added HGST parts JH, JJ,JK , JM, JN, JP and Intel parts NK NL Samsung KG)Updated Table 11-7 (added HGST parts JE, JF, and JG and Samsung parts KF; also corrected 480GB pn). Updated Table 10-6 (Added V, U, Q, and T).	N/A
44	28 Jan 2019	Change history is missing rev 43 and replace Neil Strachan's name with N/A.	N/A
45	17 June 20	Added these drives to this document: Skybolt 900GB, Micron 240GB M.2, Paris-C 18TB, Intel D7-P5500 6.8TB, Samsung PM1733 6.8TB, Samsung PM1643a 200GB, 800GB, 7.68TB.	N/A
46	8 Feb 21	changes to table 11-7 of spec 923-3392-Rev45-VerA to reflect new Intel and Samsung parts	N/A
47	14 May 2022	Added DDR5 2D Label Requirement in section 11.1.5 and removed GSI reference in Introduction. Update table 11-8 Power Supplier Serial Number Breakdown; removed '9999'and extend SN range. Update table 11-9 Power Supply Vendor or Manufacturer Code Matrix: changed Emerson Network Power (Astec) to Advanced Energy (Astec/Artesyn), updated PowerOne to Bel Power. Also added Flex Power to table 11-9. Updated confidentiality statement from Oracle Internal to Oracle Restricted.	N/A
48	12 Jan 2023	Added WDC London-D 22TB HDD and Seagate Destroked 300G HDD. Added 3 Samsung SSD PN's (pg 54) Version B: added PDU supplier codes to table 11-9. Version C: updated title of 11.3. Version D: Update Table 11-9 Power Supply Vendor or Manufacturer Code Matrix page 55.	N/A
49	13 Feb 2025	Updated L10/L11 SNs to remove unique product identifier from 7th character and use only 3 defined.	N/A

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