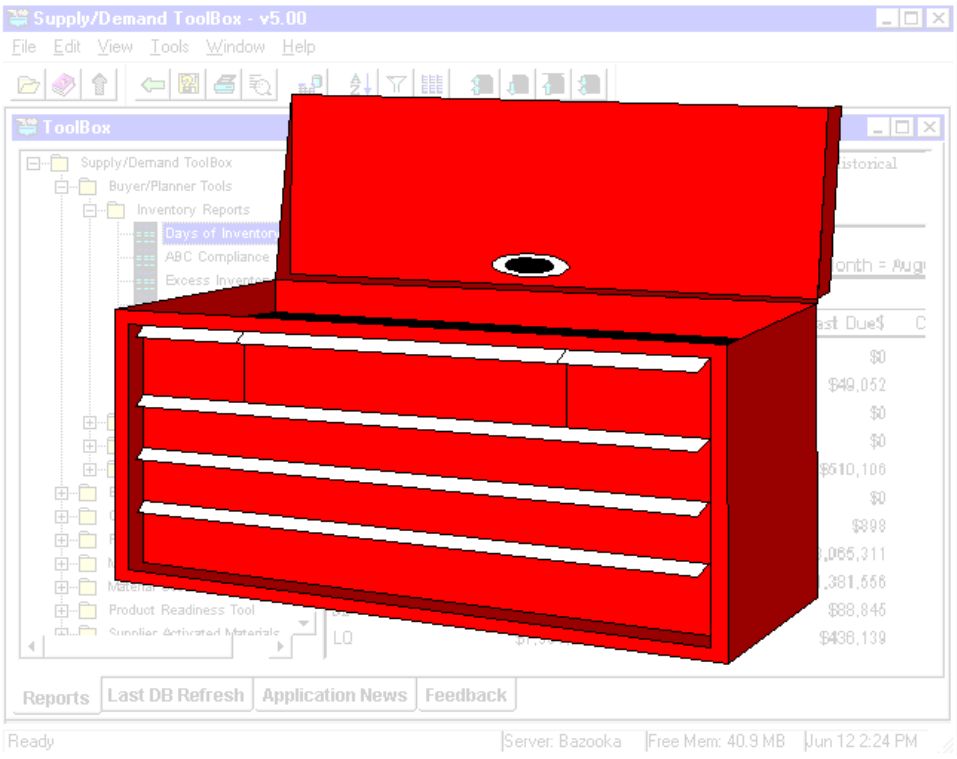
ToolBox

v 5.06

USER'S GUIDE



intel. MIIS DECISION SUPPORT
Version: 5.06 Printed: December 3, 1997

About This Manual

*For **documentation and help issues**, or if you have a comment or suggestion for improving this publication, please e-mail or phone Len Humbird (1-503) 696-2841.*

This manual documents the Supply/Demand ToolBox – an integrated set of data reporting and analysis tools for measuring Intel Systems Manufacturing key indicators. This provides the vital information needed by business owners, material buyers and planners, schedulers, forecasters, and any other personnel involved in the supply/demand process.

These reporting tools are updated approximately six times per year. However up-to-date printed documentation is issued on a limited basis only three times per year. Therefore, to get the most up-to-date documentation, you should use either the on-line help that comes with the software, or visit our documentation web site at sdtoolbox.hf.intel.com/sdtools/tbox_doc.

Technical Assistance

For more contact information, see "Technical Assistance" in the Getting Started chapter.

This software was developed by the MIIS Decision Support group.

For **data problems**, call the ASEC pager at (1-503) 201-4188, or by Intranet at http://www-gas.hf.intel.com/Misc/PageSQL.htm. Or visit their website at http://www-gas.hf.intel.com.

For **login or password problems**, send e-mail to "SDS, Accounts".

For **training issues**, contact the business developers listed in the Technical Assistance section (page 10).

To **report bugs or other software issues**, e-mail or phone Dale V. Walker – (1-503) 696-7305, or contact the responsible developer listed in the Technical Assistance section (page 10).

You can send us a fax at (1-503) 696-2823, " Attn: Len Humbird or Dale V. Walker"

Revision History

Date	Ver	Author	Changes
12/07/1997	5.06	Len Humbird	Updated for v5.05 software changes. See "Version History" on page 10.
10/03/1997	5.05	Len Humbird	Updated for v5.05 software changes (Buyer/Planner, BAT, CAT), added WHIM (new report category). For details see "Version History" in *Getting Started*.
08/02/1997	5.04	Len Humbird	Changes to Buyer/Planner, BAT, CAT, Forecast/Optimization
07/31/1997	5.03	Len Humbird	Updated for v5.03 software changes (Buyer/Planner, BAT, CAT, Forecast/Optimization).
06/30/1997	5.0	Len Humbird	Updated for changes related to Job '96 data sources and PowerBuilder 5.0 user interface changes. See "What's New in Version 5.0?" in *Getting Started.*

This file location: D:\Documents\Toolbox\Toolbox.Doc
Archive location: \\Ink\Sys\Git\Dmdmgmt\ToolBox\Doc\Help\tbox506.zip
Online documentation at: http://sdtoolbox.hf.intel.com/sdtools/tbox_doc
This copy printed on: 12/03/97 7:19 PM

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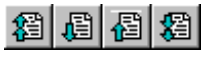 First, Previous, Next, Last Page....30
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Glossary of Terms

521

521 Material Movement: Transaction used by PDC to receive product into warehouse. 521 Reservation: Availability loads to SAP visa a 521 reservation. This is automatically loaded each night from MAX MPS or can be manually loaded by the CSP. Manually loaded 521's will be overwritten by MAX load each night.

ABC Code

Assignment of inventory control priority by part. "A" parts have the highest priority; "B" parts are middle priority; "C" parts are low priority. Determination of this assignment can be accomplished through a pareto analysis of all parts. For example, designate the top 80% of dollarized on-hand inventory to be classified as "A"; the next 15% as class "B", and the last 5% as class "C". Alternatives to this example: dollarize the next three months of demand, instead; use cost projection instead of standard cost; or use different percentages.

The outcome of this can determine what *excess* means. For example, policy may be that "A" parts must have no more than 10 *DOI*; "B", 20; and "C", 40. Then, if an "A" part has more than 10 days of inventory, then its excess = (total inventory) - (inventory needed in the next 10 days). Since inventory is managed separately by plant, a part that is excess at one plant can be short at another

The outcome of this can also determine how often a part must be *cycle counted*.

See also ABC Compliance report in the Buyer/Planner chapter.

Amended CSD Lates

This is a measurement of late deliveries which is adjusted for "Amended Lates" — items listed as late but are not considered late due to ship time, etc.

ACT

ACTual product completed by manufacturing.

AGID

Actual Goods Issued Date (formerly ASD in STAR). The actual date which the IDB processing is pulling from the Delivery Note after Goods Issue processing is completed (i.e., the product has shipped).

ASD

Actual Ship Date.

ASP

Average Selling Price.

ATP

Available To Promise. ATP=Supply+Onhand-Backlog. This is the quantity of a material or part still available to MRP that can be used for new sales orders. This quantity is calculated for warehouse stock as well as for planned receipts (production orders, planned orders, etc.), so that a correct availability check is possible for sales order processing.

Backlog

All customer orders that are received but not yet shipped. Sometimes referred to as open orders. Distinction is often made between various types of backlog, and in some cases even the definitions vary.

In BAT:

- **Clean** – All customer orders except for those "stopped" by the customer.
- **Dirty** – All customer orders except for unconfirmed.
- **Dirty+Unconfirmed** – All customer orders.
- **Quotes** – These add hold availability of supply.

For specific details of other backlog filters, see **Backlog Analysis Tools**

In SDO Backlog:

- **Clean** – All customer orders except for those "stopped" by the customer.
- **Dirty** – All other customer orders.
- **Confirmed** – Customer orders which have CGID and RGID assigned.
- **Unconfirmed** – Customer orders which only have RDD assigned.

More information can be found in **SDO Backlog SAP Report**.

BAT

Backlog Analysis Tool. An analysis tool to define a factory's statement of supply (SOS) alignment to business unit forecast and/or customer backlog, for TMG System Manufacturing plants. SOS versus customer backlog can be viewed in daily, weekly and monthly buckets.

Batch

Identifier assigned when a lot is moved from WIP to WRx. Each product is assigned one batch number to cover all closures made on that day. (For example, if we close 150 bugeyed widgets at 8:00 AM, and then close 1,000 more at 4:00 PM that same day, there will be one batch for 1,150 bugeyed widgets.)

Blocked Stock

Finished inventory in PDC that cannot be shipped or booked due to *QAN, ship hold, awaiting rework,* etc. Inventory on *blocked stock* does not show as ATP.

BOH

Beginning On-Hand. The on-hand inventory balance at the start of a period of time, usually a month.

BOM

Bill of Material. The set of components and the quantity used for a product (and optionally the hierarchical structure of sub-components within the product). A listing of all the subassemblies, intermediates, parts and raw materials that go into a parent assembly showing the quantity of each required to make an assembly. It is used in conjunction with the master production schedule to determine the items for which purchase requisitions and production order must be released. A variety of display formats exist for BOMs, including the single-level BOM, indented (multi-level or exploded) BOM and summarized BOM.

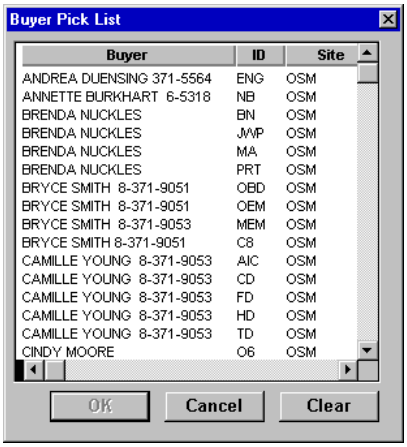
Systems Manufacturing BOMs can go deeper than 10 levels. Most of the intermediate levels are pseudo parts.

BPA

Business Planning Analyst. Formerly known as a Customer Service Planner (CSP). The factory equivalent of a Customer Service Representative (CSR), who manages sales orders from the factory. The BPAs are coordinated by a Geo Business Analyst (GPA). (The GBA makes the judgment calls when balancing conflicting BPA priorities.)

Buyer(s)

In query screens, a pop-up listing of Intel Materials Buyers and their respective codes and sites.



Buyer/Planner Tools

BP Tools are designed to promote improved inventory management in System Manufacturing. They are primarily designed for use by purchasing, planning, and finance in the plants. These tools will help buyer/planners quickly identify past due demand, DOI, excess inventory on hand and on order, and prioritize which parts to focus on.

Buyer Code

A code to identify the person responsible for procuring an item. A part can have only one buyer code.

CAT

RGID Analysis Tool (CAT). CAT is a *Delivery Performance On-line Transaction Processing (OLTP) tool* that tracks which segments shipped late and the reasons why they were late. CAT also is a collection of reports used to summarize and act upon the collected data.

CCP

Corporate Committed Process.

CDD

Confirmed Delivery Date. (Formerly IDD in STAR.) This is the date Intel has committed to deliver the order to the customer's dock. Based on availability, this date may not always equal the RDD. It is set when the confirmed quantity is greater than zero.

CGID

Confirmed Goods Issue Date. (Formerly ISD in STAR, and ISD plus transit times in EuroSTAR.) The current date an order is scheduled to ship from Intel in order to meet the CDD. This date is automatically generated (by the system) during the schedule confirmation process. The calculation takes into account the RDD, the pick/pack time, the loading time, and the transit time. This date can be manually changed during delivery processing.

CMF

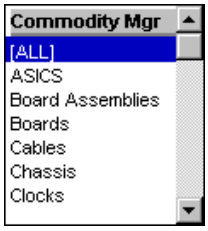
Customer Master File.

Commodity Management

Organizational structure within Systems Manufacturing Materials designed to provide optimal materials support to business units, purchasing, and manufacturing. Centralized teams have been developed dedicated to focus on specific commodities.

Commodity Manager

In query screens, a pop-up listing of Commodity super-groups ranging from ASICs to VLSI.



Component

Individual part. As used within MAP it is usually a purchased part

CORE

Common Object Rollup Engine. A data translation engine, which manages product hierarchy names and numbers, and translates legacy product rollup with SAP's MM#. Also see Item Market Name.

CRD

Customer Required Date. See RDD.

Cross-Site Leveling

Cross-Site Leveling data is designed for a user to review the current supply/demand situation at other iPG plant(s). The report is intended to help identify opportunities to move (level) excess inventory to other plants

CSD

Customer Ship Date. See RGID.

CSR

Customer Service Representative. The person entering and managing the sales orders for the customer.

Customer Group

The STAR order entry system groups customers by broad associations called customer groups. In CAT query windows, a Customer Group browse button will provide these broad customer group selections:

- Direct VOC – Data based on Corporate defined VOC accounts which are OEMs
- DISTI VOC – Data on DISTI accounts only
- NON VOC – All customers who are not on the corporate VOC list.
- ALL – All customers

Customer Hold

A hold placed on an order or line item by the customer.

Customer Stop

A stop placed on an order or line item by the customer. This is very close to a cancellation.

Customer Type

See Distribution Channel.

Data Date

Date given at the top of reports which corresponds to the age of the data on the report. For example, Dec 30, 1997 means that the data is as of the end of business on December 30, 1997.

Data Store

Repository integrating Systems Manufacturing data, including MAX, SPEED, SAP, and other data. In general, only used for read access, although for some applications, the Data Store contains user-entered data.

Data Warehouse

Repository integrating Intel Sales data.

Delivery Due List

An SAP report that contains all sales order items due for shipment. Similar to STAR OPQS screen.

Delivery Note

A document that contains customer shipping information. Similar to STAR pick-list.

Delivery Note Number

A number assigned by SAP to track a shipment and to verify its delivery.

Demand

Quantity of product requested to be built by the Supply/Demand Organization (SDO); may be limited by constrained materials.

Distribution Channel

The way in which products or services reach the customer. Typical examples of distribution channels are: wholesale, retail, or direct sales.

Valid distribution channel values are:

- 01 – Direct
- 02 – Industrial Disti
- 03 – Retail
- 04 – Internal

DOI

Days Of Inventory. DOI is calculated using the same algorithm as Finance, a forward looking calculation using an average monthly demand over the next six months, one month at a time using the Intel 4-4-5 calendar. For any given part the DOI is calculated based on inventory and demand units. For any summary of parts the DOI is calculated based on inventory value($) and demand value($).

The formula is as follows:

> DOI for a month = # days in month *
> (remaining inventory - demand) / demand

For example, Part A has 50 in inventory on March 24th. Past due demand is 10, remaining demand for March is 10, April demand is 20, and May demand is 20. The DOI for Part A would be 50 days, as follows. Add the 10 past due to current month demand, bringing the total to 20. All of this inventory will be used in March, which has 8 days left. This leaves 30 net inventory for April. 20 of this inventory will be used in April, which has 28 days. The remaining 10 in inventory will be used in half of May, or 14 days. So, 8 days + 28 days + 14 days = 50 days.

Note: For data dates on the last day of the Intel month, past due demand is added to month+1 demand instead of current month demand (ie. where # of days in month is equal to zero).

EGID

Earliest Goods Issue Date. (Formerly ICD in STAR, and ICD plus transit times in EuroSTAR.) This is the original date given to the customer by Intel on intended product shipment. This date is captured by the IDB processing (external to SAP) and stored for all schedule lines with the same CGID. This date is static and does not change during rescheduling or other changes to the order.

EOH

Ending On Hand inventory at the end of an Intel month. EOH is the sum of all inventory (nettable + non-nettable) in static locations defined as Raw/WIP locations. EOH does not include work order WIP or in-transits

Excess Inventory

Excess Inventory reports will identify the excess inventory position for each planner. Excess inventory is segmented into two categories: excess on order and excess on hand. Excess on order identifies PO quantities that are above the MRP requirements for the chosen period. Excess on hand identifies EOH quantities that are in excess of the requirements.

FERT

Abbreviated version of the German term FERTIG. Equal to Finished Goods Inventory (FG).

FG

Finished Goods inventory.

Forecast-Only SAM Part

A part on the SAM (Supplier Activated Materials) program for demand-line sharing purposes only. Regular purchase order processing is used to order these parts

FYI Planner

A decision support tool for assisting business planners to produce a monthly forecast of product demand. This replaced WDT.

FYI Sales

A reporting tool for displaying the data used by FYI Planner for decision support. FYI Sales includes more advanced reporting features than FYI Planner. This replaced WDT.

Geography

See Sales Organization.

Goods Issue

The process of moving finished goods out of inventory. Once a product is *goods issued*, you can not get it back; it's on the truck or airplane.

Gross Trade PRF

Total forecast of a product; what is expected to ship out.

ICD

Intel Commit Date. See EGID.

Intangibles

Materials which cannot be assigned to any of the standard material type; i.e., lease, lease fees, royalty fees.

Intel Calendar

Also known as the Intel 4-4-5 Calendar. A pop-up Intel corporate calendar is available for setting the desired time period for which a given report will cover. A query screen will usually have "From" and "To" date fields to designate the desired time frame. This is used in such tools as Buyer/Planner, BAT, Material Cost Tools, and Vendor Performance.

Intel Hold

A hold placed on an order or line item due to issues such as customer credit or part availability. Also see Customer Hold.

Inventory Levels

The SAM program defines four classifications of inventory level as described below:

HIGH is defined as:

> Max Qty inventory level specified OK is defined as:

< Max Qty and > Min Qty inventory level specified

LOW is defined as:

< Min Qty inventory level specified and >0.1 * MINimum inventory level specified

OUT is defined as:

< 0.1 * Min Qty inventory level specified

ISD

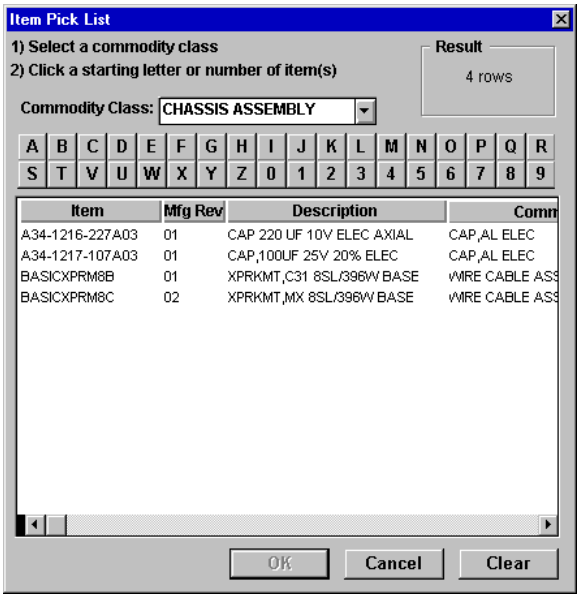
Intel Ship Date. See CGID.

Item Market Name

This is the orderable product name within SAP. For products manufactured in Systems Manufacturing, it usually equates to a master scheduled product in MAX. This is the product name that ties SAP products to legacy systems. Also see CORE.

Item Pick List(s)

In query screens, a pop-up listing of manufacturing materials items arranged alphabetically for singular or multiple selections.



LLDB

Local Logistics Data Base. The database which translates information to and from SAP and WRx.

LTB

Left To Book. Current forecast quantity not covered by backlog.

MAD

Material Availability Date. (Formerly IAD in STAR.) The date the material must be available in the plant to begin the pick/pack process in order to meet RDD and CDD. SAP calculates this date by working backwards from the customer's RDD, and then looking forward for material availability. It takes into account the time needed for

delivery-related procedures such as picking, packing, loading, and transportation. Confirmed MAD = CDD - transit time - pick/pack in the warehouse.

Manufacturing

The location where finished goods are created. Also referred to as Site, Warehouse, Factory, Plant, Plant Abbr., and Mfg. Plant.

MAP

Materials Availability Package. Maintains supply line information for sets of material which are constrained or high focus.

Master Scheduler

Person who manages the Master Production Schedule. Generally, this person manages orders at a higher level (for example, monthly rather than weekly) than the Production Planner.

Material

A Material is a set of components which are similar in nature. Supply lines for the material are maintained by commodity managers and specialists.

Material Grouping

A collection of materials that have been equated to each other based on some multiplication factor (e.g., Memory may be made up of 1 32MB chip, 2 16MB chips, 4 8MB chips etc.).

Material Master Number (MM#)

A six-digit non-intelligent number assigned to a product. Customers order product by MM#. SAP is managed by MM#.

MATL$

MATL$ is the material only portion of the cost defined at cost set = 3

MAX

The Systems Manufacturing MRP database. MAX is the PC-based MRP system used in Intel. There is one MAX database setup for each plant in System Manufacturing. SAP R/3 will replace MAX as Intel's MRP system.

Max Qty

The largest number of items allowed in inventory, based on the average weekly forecast demand. Generally, the maximum is 2 times the minimum value.

MIIS

Materials Integrated Information Services. New name for Systems Manufacturing Information Technology (SMIT).

Min Qty

The smallest number of items allowed in inventory, based on the average weekly forecast demand.

Min/Max Code

A: Min value = 1 week of average demand; Max value = 2 weeks of average demand

B: Min value = 3 weeks of average demand; Max value = 4 weeks of average demand

C: Min value = 4 weeks of average demand; Max value = 8 weeks of average demand

D: Min value = variable (set by buyer); Max value = variable (set by buyer)

Movement Type

A three-digit alphanumeric code assignment which identifies between various SAP transactions.

MPS

Master Product Scheduling.

MRP

Material Requirements Planning. A set of techniques that calculates requirements for materials based on bill of material data, inventory data, and the master production schedule. It makes recommendations to release replenishment orders of materials. Further, because it is time-phased, it makes recommendations to reschedule open orders when due dates and needed dates are not in phase. MAX is Intel's MRP system.

MRP Demand

MRP Demand is the sum of all material requirement loaded in MRP. Demand includes all 280000-599999 series work orders with type = RQ,CU,MF,MS and status < 4. Past due demand is defined as demand with data prior to the Data Date. Current month demand is all demand remaining for the current month (excluding past due).

MTD

Month-to-Date.

Net Trade PRF

Forecasted shipments minus finished goods inventory.

Normal SAM Part

A part on the SAM program. A blanket purchase order (typically with an order quantity of more than 9 million) is loaded into MRP, and the supplier is responsible for stocking the parts. Normal purchase orders are not used.

Numetrix Linx

Maintains product level demand by plant by work week. (Formerly done by WDT.) Used primarily to:

- Create and store constrained product weekly demands/Build plans
- Transmit weekly bucket demands to manufacturing sites
- Execute product demand Net Change
- Interface with PFS for product status, product/family groupings

Interface with MAP for materials constraints analysis

On Order

On Order is the sum of all 700000 series Purchase Orders with a status < 4. Note: Planned Orders are *not* included. The Blanket Purchase Orders are excluded from all on order fields in Buyer/Planner Tools, but do have visibility in the PO Report.

On-Time Delivery

Performance measurement designed to provide insight into whether a SAM supplier is providing enough parts to keep manufacturing lines in operation per current forecast demand.

on-time delivery measure =

[1- (Total number of "OUT" counts)/ (Total number of counts)] * 100

Operation

Intel Business Operation, usually aligned with products manufactured. Examples include Desktop, Server, Network, Personal Conferencing and Internet operations.

Order

A request by a customer for delivery of product on a specified date (RDD). Orders consist of line items which can be individually assigned a delivery date.

Pareto

A statistical accounting of reason codes for late delivery. For more information, see **Late Accounting Module** in CAT.

Past Due

Any demand or order that was due prior to the current date

PDC

Physical Distribution Center. (Formerly known as BSW.)

PFS

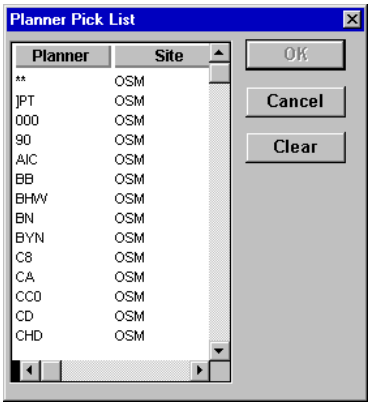
Product Forecasting System. (Note: This product has been replaced by Think FYI and is now obsolete.) See FYI Planner and FYI Sales.

PI

Planned Inventory.

Planner(s)

In query screens, a pop-up listing of each Planner Code and their respective Site.



Planner Code

A code that identifies the person responsible for planning an item. A part can have only one planner code.

Plant

See Site or Warehouse.

PRF

Product Requirement Forecast.

Product Code

This is the Item Market Name and item within MAX.

Product Family

Family to which the product belongs. (Product roll-up information is currently provided by CORE.)

Product Hierarchy

The method by which Intel arranges the relationships between products. (Product roll-up information is currently provided by CORE.)

- Group
- Division
- Operation
- SBS
- CCP Family
- Family
- Base Product
- MPA Product

Product Operation

Business unit to which the product is associated.

Production Planner

The person responsible for planning work in production. A production planner manages the day-to-day scheduling of work orders based on material availability and capacity.

QAN

Quality Action Notice (from SPEED).

RDD

Required Delivery Date. (Formerly CRD in STAR.) This is the date the customer specifies when the product needs to be at the customer's dock.

RGID

Requested Goods Issue Date. (Formerly CSD in STAR.) Calculated as Required Delivery Date (RDD) minus transit time to customer dock. This is the date an order needs to be shipped from Intel to reach the customer by RDD.

Responsiveness to Demand Changes

Performance measurement designed to provide insight into a SAM supplier's ability to quickly adjust to and accommodate Intel's changing demand forecast over time.

responsiveness measure =

[Total number of “OK” counts)/ (Total number of counts)] * 100

RLT

Replenishment Lead Time. The date in the future when orders can be scheduled without regard to the Statement of Supply (SOS).

RTF

Response To Forecast. Manufacturing response to the forecast. Also known as the Plant Master Schedule (MPS).

SAP

Systems, Applications, and Products in Data Processing. A software company based in Waldorf, Germany. An implementation of an operations planning system. R/2 is mainframe-based. Intel's implementation is based on "R/3" (three-tiered client-server with Oracle database). Components currently implemented include Job '96 (Sales order processing and distribution, which replaced STAR).

Sales Organization

This is the geographic location of the sales organization which places a sales order. There are five geographies:

- AM – USA
- AP – Asia/Pacific
- EU – Europe
- JP – Japan

SAM

Supplier Activated Materials is a process for procuring materials based on a thirteen week forecast horizon and defined minimum and maximum inventory levels without the need for individual purchase orders.

SAM Weekly Forecast

SAM Weekly forecast is a tool which allows you to view exactly what your SAM vendor received on the specified transaction date for each individual component at each site. You may manipulate this view on screen by choosing the sort or filter options from the menu. Additionally you may print or export your data to Excel.

SBS

Strategic Business Segment. Intel’s SBSs include Servers, Desktop, OPSD

SECc

Single Edge Contact (SEC) cartridge. The form factor used for the Pentium II processor.

SDS

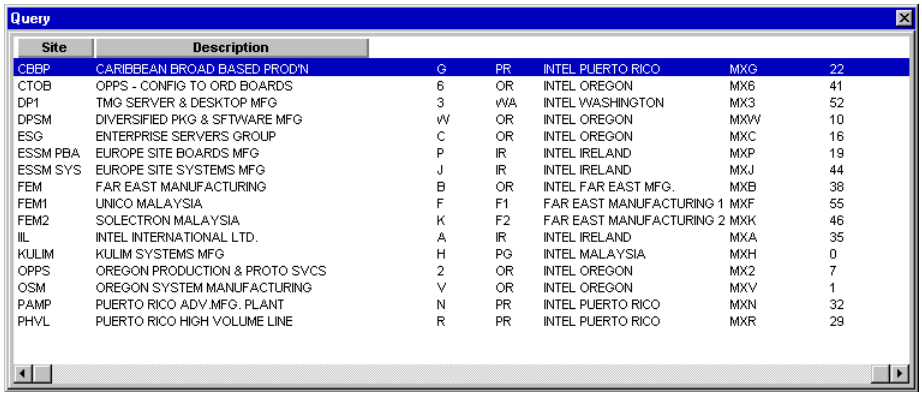
Shared Data Store. See Data Store.

Shipping Point

The Intel location which will be shipping the order to the customer. (Puerto Rico shipping point is SPRA.)

Site

Also referred to as Factory, Plant, Plant Abbr., and Mfg Plant. An Intel manufacturing location. In query screens, this is a drop-down field which lets you select one or more manufacturing sites in order to focus the report output. These sites are defined in the MAX database or the location database or MRP.



SMA

Supply Management Analyst. Formerly known as a Supply Line Planner (SLP).

SOS

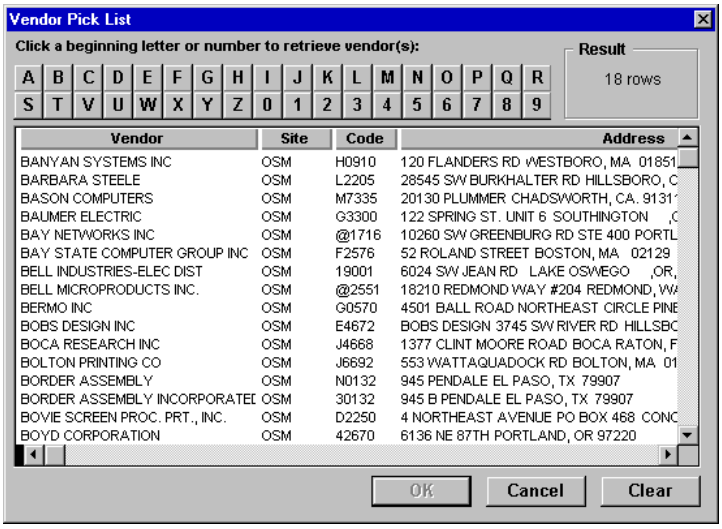
Statement Of Supply. See also Supply. SOS is also available via SAP availability screens.

STAR

Sales Tracking And Reporting system. This was replaced by SAP in Q3 97.

Supplier(s)

In query screens, an alphabetized Approved Manufacturers List (AML) of Intel Materials suppliers from which single or multiple choices can be made. Note that the same supplier organization can appear more than one time and separate divisions of the same suppliers can appear simultaneously.



Supply

Quantity of a product the factory has committed to build; this is reflected in MAX and is also called the RTF (response to forecast).

Systems Manufacturing Materials

Intel organization chartered to deliver comprehensive, competitive, and timely materials solutions which enable the design and manufacture of innovative products for Systems Manufacturing and its customers.

THINK FYI

See FYI Planner and FYI Sales.

Tier 1

FG Inventory at the default manufacturing site's warehouse.

Unrestricted Stock

Finished inventory in PDC that is available to ship (i.e., no holds).

Vendor Codes

Code given to each Intel Supplier for the purpose of MAX identification. In some cases, the same vendor may have several different vendor codes: one for each geographic or MRP site.

Vendor Report

Refers information transmitted to each SAM vendor on a weekly basis

VOC

Vendor Of Choice.

Warehouse

SAP S/D plant. Also referred to as Plant and Warehouse. The location from where an order is shipped. These are Intel's SAP S/D warehouse codes:

WCAA	California Boards (Selectron)
WCHA	NADC
WCHB	Chandler (Spares)
WCHZ	NADC Processing Center
WCIA	Huajing (China)
WEUA	Europe Hub
WEUZ	Europe Hub Processing Center
WFMA	Folsom
WIEA	Ireland
WIEZ	Ireland Processing Center
WJPA	Tsukuba
WJPB	Shinko
WJPZ	Tsukuba Processing Center
WKLA	Kulim
WMNA	Manila
WMNZ	Manila Processing Center
WORA	Oregon
WORB	OREGON SSD
WORZ	Oregon Processing Center
WPNA	Penang
WPNB	Penang F.E.M.
WPNC	
WPND	PLC Board Mfg
WPNZ	Penang Processing Center
WPRA	Puerto Rico, WPRA
WPRZ	Puerto Rico Processing Center
WSCA	Santa Clara
WSHZ	Shinko Processing Center
WWAA	Dupont System Mfg

WDT

Weekly Demand Tool. (Note: This product was replaced by Numetrix Linx, and is now obsolete)

Variant

A function in SAP that lets you customize your viewing capabilities. A way to look at “just your products.”

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