Configuration Guide
Complex Assembly Manufacturing Solution (CAMS)
Release 7.2

Target Audience

- Consultants
- Administrators
- Others

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Type Style	Represents
Example Text	Words or characters that appear on the screen. These include field names, screen titles, pushbuttons as well as menu names, paths and options. Cross-references to other documentation
Example text	Emphasized words or phrases in body text, titles of graphics and tables
EXAMPLE TEXT	Names of elements in the system. These include report names, program names, transaction codes, table names, and individual key words of a programming language, when surrounded by body text, for example, SELECT and INCLUDE.
`Example text`	Screen output. This includes file and directory names and their paths, messages, names of variables and parameters, source code as well as names of installation, upgrade and database tools.
`Example text`	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
`<Example text>`	Variable user entry. Pointed brackets indicate that you replace these words and characters with appropriate entries.
`EXAMPLE TEXT`	Keys on the keyboard, for example, function keys (such as `F2`) or the ENTER key.

Icons

Icon	Meaning
	Caution
	Example
	Note
	Recommendation
	Syntax

Additional icons are used in SAP Library documentation to help you identify different types of information at a glance. For more information, see *Help on Help* → *General Information Classes and Information Classes for Business Information Warehouse* on the first page of any version of *SAP Library*.

History of Changes

The latest version of the Configuration Guide is included in the CAMS delivery available for download on the SAP Service Marketplace.

The following table provides an overview of the most important changes that were made in the latest versions.

Master Guide Version	Important Changes
1.1 (August 2015)	Clarified use of Diff (Was/Is) program and Location for tkDiff program / code in section 2.3.7.7
1.0 (June 2012)	CAMS 7.2 Configuration Guide

Contents

1 About This Document

1.1 Purpose and Scope

The Configuration Guide describes all activities necessary for the configuration of the Complex Assembly Manufacturing Solution (CAMS) to meet customer requirements. In addition, this Configuration Guide provides information about other documentation that is required during the configuration process.

The CAMS suite supports the following business scenarios:

- Define Product Structure
- Create Authority for BOM/Planning Changes
- Create Fabrication, Assembly, Installation, and Tool Plans
  - Print Plans
- Define First Article Inspection Requirements
- Execute Order
- Create Rework Plan/Order (as required)
- Define Schedule Templates

To allow for an efficient configuration process, information within this document is structured according to scenarios. You can choose from several generic business scenarios, and find all information that is relevant for the technical configuration of a specific business scenario.

1.2 Target Audience

This document is intended for the following target audiences:

- Technical consultants
- Customers
- System administrators
- Business process owners
- Support specialists

1.3 Glossary

Term	Definition
BOM	Bill of Materials.
BOMM	Bill of Material Management. This CAMS application allows users to create and manipulate the Manufacturing Bill of Material (MBOM) that defines the overall product assembly sequence or stages through which a product is built from its constituent parts and materials. This involves combining parts, materials, and sub-assemblies into complex assemblies that drive the CAPP planning process.

Term	Definition
Business scenario	From a microeconomic perspective, a business scenario is a cycle that consists of several interconnected logical processes in time. Typically, a business scenario includes several company departments and involves other business partners. From a technical point of view, a business scenario needs at least one SAP application for each cycle and possibly other third-party systems. A business scenario is a unit that can be implemented separately and reflects the customer's prospective course of business.
CAGE Code	Commercial and Government Entity (CAGE) Code. The CAGE Code identifies companies doing or wishing to do business with the United States Federal Government. It is used to support a variety of mechanized systems throughout the government and provides a standardized method of identifying a given facility at a specific location. The code has five positions: the first and fifth positions must be numeric; the second, third, and fourth may be a mixture of alphanumeric or numeric excluding I and O. All positions are nonsignificant.
CAMS	Complex Assembly Manufacturing Solution.
CAPP	Computer-Aided Process Planning. This CAMS application defines and maintains the detailed processes that result in the manufacture of products as defined in the MBOM, including specification of all physical and information resources needed to support those processes. CAPP process plan types include installation; fabrication and assembly; tooling; rework; and special purpose.
Component	The smallest individual unit considered within the Solution Development Lifecycle. Components are separately produced, delivered, installed and maintained.
FAI	First Article Inspection. This functionality provides the ability to impose inspection requirements on first run parts in the shop.
MCM	Manufacturing Change Management. This CAMS application is used to initiate, document, monitor, and analyze engineering and manufacturing changes. It helps users determine what information (such as bills of material or CAPP process plans) and what physical items (such as tooling or equipment), are affected by a change requirement. Once the scope of the change impact is assessed, users can use MCM to plan the steps necessary to incorporate the effects of the change requirement.
NCM	*Non*conformance Management. In the event of any material or process discrepancies found during SFM order execution, users can issue a nonconformance record using NCM. Rework orders or rework plans can be created as needed from NCM.
NCR	Nonconformance record.
OM	Order Maintenance.
PMI	Project Management Integrator works alongside CAPP and Shop Floor Management to enable proactive project management, predictive scheduling, and manufacturing intelligence.
Proc	Procedure.

Term	Definition
SFM	Shop Floor Management. This CAMS applications executes a company's manufacturing or maintenance processes, as defined in BOMM and CAPP, by managing all of the information required for fabrication, tooling, subassembly, and final assembly. Once the SFM order is complete, the as-built product structure is recorded in BOMM as an As-Built Bill of Material (ABOM).
TSM	Time-sensitive material.

1.4 Related Information

SAP recommends that you read the following documents prior to configuring CAMS. These documents can be found in the `Documentation` folder of the CAMS delivery:

- *CAMS Installation Guide*
- *CAMS Implementation Guide*
- *CAMS Integration Guide*
- *CAMS Master Guide* (for new customers) or *CAMS Upgrade Master Guide* (for existing customers)
- *CAMS Operation Guide*
- *CAMS Security Guide*
- *Release Notes*

1.4.1 Further Useful Links

The following table lists further useful links:

Content	Location on SAP Service Marketplace
Information about creating error messages	`http://service.sap.com/messages`
SAP Notes search	`http://service.sap.com/notes`
SAP Software Distribution Center (software download and ordering of software)	`http://service.sap.com/swdc`

1.5 Important SAP Note

Please read the following SAP Note before you start the CAMS configuration. This SAP Note contains the most recent information on configuration as well as corrections to the configuration documentation.

Make sure that you have the up-to-date version of the SAP Note, which you can find on the SAP Service Marketplace at **`http://service.sap.com/notes`**.

SAP Note Number	Title	Description
1705269	CAMS 7.2 Configuration Guide	Information not included in the CAMS Configuration Guide

2 CAMS Overview

Designed for the Aerospace & Defense (A&D) and Industrial Machinery and Components (IM&C) industries, CAMS provides a means for planning, managing, and controlling shop floor and manufacturing operations.

The CAMS suite includes three planning and definition components and two execution components:

- **Planning and Definition Components:**
  - **Computer-Aided Process Planning® (CAPP):** CAPP is a comprehensive system that helps manufacturing engineers capture, retrieve, author, manage, and distribute manufacturing information and multimedia work instructions.
  - **Manufacturing Change Management® (MCM):** MCM efficiently manages engineering and manufacturing changes while keeping product configuration in control.
  - **Bill of Material Management (BOMM):** BOMM helps users define, control, and navigate a part-based, multilevel product structure to generate accurate material requirement plans.
- **Execution Components:**
  - **Shop Floor Management® (SFM):** SFM delivers visibility to the entire shop floor, including manufacturing management, shop floor supervisors, and shop floor operators and mechanics. The application executes manufacturing and maintenance processes and manages all information required for fabrication, tooling, subassembly, and final assembly.
  - **Nonconformance Management® (NCM):** NCM creates nonconformance records (NCRs), discrepancies, and dispositions to flag, define, and rectify an area of nonconformance and then track it through its various stages.

2.1 System Landscape

See the *CAMS Master Guide* for system landscape information and hardware and software requirements.

2.2 Software Component Matrix

Scenario/Business Processes	Software Component	Implementation and Configuration Process
Define Product Structure (EBOM, MBOM)	BOMM	See Define Product Structure.
Create Authority for BOM/Planning Changes	MCM	See Create Authority for BOM/Planning Changes.
Create Fabrication, Assembly, Installation, and Tool Plans Business Process A: Print Plans	CAPP	See Create Fabrication, Assembly, Installation, and Tool Plans and Common Configuration Parameters. See Print Plans.

Scenario/Business Processes	Software Component	Implementation and Configuration Process
Define First Article Inspection Requirements (as required)	FAI	See Define First Article Inspection Requirements.
Execute Order	SFM	See Execute Order.
Create Rework Plan/Order (as required)	NCM	See Create Rework Plan/Order.
Define Schedule Templates	PMI	See Define Schedule Templates.

2.3 Implementation and Configuration – Basic Settings

Please refer to the *CAMS Master Guide* (new customers) or the *CAMS Upgrade Master Guide* (existing customers) to see the implementation sequence and the *CAMS Implementation Guide* for information on functionality that requires implementation steps beyond setting configuration parameters.

Complex Assembly Manufacturing Solution configuration is done using configuration parameters.

This section covers the following:

- The privileges required to edit configuration parameters.
- The definitions of entries in the Criticality column for each configuration parameter table.
- Basic configuration parameters, whose settings apply across most of the CAMS suite. (Configuration parameters that apply to a specific scenario are covered in the Business Scenarios section.) The following configuration parameters are covered:
  - Login
  - User maintenance and password
  - Globalization
  - Customer
  - Common
- How to edit document-level configuration parameters.

2.3.1 Configuration Parameter Edit Privileges

In order to edit configuration parameters in CAPP, a user must be using a profile that is assigned the following privileges:

- *BOM Parameter Maintenance*
- *C/M Parameter Maintenance*
- *Document Config Maintenance*
- *Edit Common Configuration Parameters*

- *Edit CAPP Configuration Parameters*
- *Edit NCM Configuration Parameters*
- *Edit FAI Configuration Parameters*
- *Edit PMI Configuration Parameters*
- *Edit Printing Configuration Parameters*

To edit configuration parameters than can be set at the document level rather than globally, a user must be using a profile that has also been assigned the *Document Maintenance* privilege.

In order to edit SFM configuration parameters, a user must be using a logon ID that is assigned the *Access to Control File Maintenance* permission.

For how to create profiles, assign privileges to them, and assign profiles to users, see the *CAMS System Maintenance Help* by selecting the *Help → Maintenance Help* menu. CAPP profiles are covered in the *Profile Maintenance* subsection of the *CAPP System Maintenance* section. SFM logon IDs are covered in the *Employee Master → Logon IDs* subsection.

In order to see the *CAMS System Maintenance Help,* you must be logged on as a user assigned a profile that has at least one system maintenance privilege.

2.3.2 Criticality Column Definitions

The Criticality columns in the tables in the following sections list the impact on the system and your business processes if the parameter value is changed after system implementation:

- **High:** Changes to these configuration parameters significantly affect system processing. Decisions on the settings for these should be made once and the configuration parameters should not be changed after production implementation. Discuss any changes them with SAP prior to changing the selection. The decision may affect business processes as well.
- **Medium:** Changes to these configuration parameters affect system processing and normally affect your business processes. However, you can change these after production implementation.
- **Low:** Changes to these configuration parameters will have a minimal impact on the system and your business processes. You can change them after production implementation.

Some configuration parameters should not be changed once CAMS is implemented at your site. Please contact your SAP representative before making any changes to them.

2.3.3 Login Configuration Parameters

The *Login* configuration parameters control such things as the number of invalid login attempts allowed, what happens in the event of a failed login, and the login start up forms.

To edit these configuration parameters select the CAPP *Maintenance → Configuration Parameters → CAPP* menu. In the *CAPP Parameters* dialog box, click the *Login Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Login Startup Form Name	Entry; contact your SAP representative for details.	Medium	This parameter indicates a customer form to load at startup instead of prompting for a document to load. If the user has a default document defined, the system will login directly to that document. If no default document is defined, the Login startup form will be loaded and no CAPP document will be loaded. This can be used as a front end to the CAPP documents as well as other specialized applications. The variable should include the full path name of the file. A variable can used for the path name. The .gui extension should not be included.
Login Startup Function Panel Name	Entry; contact your SAP representative for details.	Medium	This parameter indicates the dialog box to post when loading the form above. This panel should provide buttons to start up applications.
Reload Login Form on Exit	*Yes* or *No*	Medium	This parameter indicates whether or not the Login startup form should be reloaded when a user clicks the *Exit* button in the CAPP module. If this is used, the `::hmsCappEvents::PostCappQuit` event macro will not be executed. You can use the *Post Load Startup Form Macro* parameter.
Post Load Startup Form Macro Name	Entry; contact your SAP representative for details.	Medium	This parameter indicates a macro name to be executed after the Login startup form has been loaded. This will be called upon initial login and when reloading if *Reload Login Form on Exit* is *Yes*.
User ID is Case Sensitive	*Yes* or *No*	High	This parameter indicates whether or not the user is required to enter an exact match (upper/lower case) to the user ID. If set to *No*, then the entry is valid as long as an "upper" translation of the user's input matches an "upper" translation of the value in the database. If this is set to *Yes* (the default), it means that the user MUST enter an exact match when logging in.  The password MUST always match case exactly against the database value.

Parameter	Valid Values	Criticality	Description
Always Force Entry – Change Login Window	*Yes* or *No*	Medium	This parameter indicates that any time the CAPP *Login* dialog box is posted, a valid user ID must be entered, or when the user clicks the *Cancel* button, he or she will exit from the system. This defaults to *No*, which means that the *Utilities* menu *Change Login* function will revert to the user's original user ID if the *Cancel* button is clicked.
Number of Invalid Login Attempts Allowed	Number; a negative, e.g., -1, number turns this check off.	Low	This parameter indicates the number of unsuccessful login attempts against a user name, and if the number specified in this parameter is exceeded, then the user ID will be set to inactive. It will remain inactive until either the user's password is reset or until a system administrator removes the inactive setting in User Maintenance.
Startup Requires User ID to be Passed	*Yes* or *No*	Medium	This parameter indicates whether or not a user ID MUST be passed into CAMS at startup using the `-userid` argument. Failing to do so will cause the application to shut down after presenting an appropriate message to the user. The default is *No*.
Password Required with Passed User ID	*Yes* or *No*	Medium	This parameter indicates whether or not a password must be entered even if the `-userid` parameter is passed to CAMS at startup. Setting this parameter to *No* will bypass the password entry when the -userid is passed to CAMS at startup.
Exit on Failed Login	*Yes* or *No*	Low	This parameter indicates whether or not the system should shut down, after presenting an appropriate message to the user, during startup if the user ID passed to CAMS at startup is not a valid CAMS user. The default is *No*.

2.3.4 User Maintenance and Passwords Configuration Parameters

The *User Maintenance/Password* configuration parameters control such things as the format of user IDs, user names, group names, and passwords.

To edit these configuration parameters select the CAPP *Maintenance* → *Configuration Parameters* → *CAPP* menu. In the *CAPP Parameters* dialog box, click the *User Maintenance/Password Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Also, SFM has additional password configuration parameters as discussed on page 134.

Parameter	Valid Values	Criticality	Description
All User IDs Upper Case	*Yes* or *No*	Medium	This parameter indicates whether or not all user IDs are to be created with uppercase characters.
All User Names Upper Case	*Yes* or *No*	Medium	This parameter indicates whether or not all user name fields (first, last, initial) are to be created with uppercase characters.
All Group Names Upper Case	*Yes* or *No*	Medium	This parameter indicates whether or not all group names are to be created with uppercase characters.
Prompt for Password Maintenance	*Yes* or *No*	Low	This parameter indicates whether or not the system should prompt for the user password when the user attempts to access Maintenance functions.
User Password Mandatory	*Yes* or *No*	Medium	This parameter indicates whether or not the password is required when adding a new user in User Maintenance.
Password Expiration Interval (days)	Number; 0 means no expiration	Low	This parameter indicates that the password for CAPP will expire on the day computed based upon this interval.
Always Require User Password	*Yes* or *No*	Medium	This parameter indicates whether or not the password must always be input during a login process. If this is *No*, then if the system login (username) exists in the CAPP_USERS table during an Auto Logon, the password will not be requested. Also, if no password exists, it will not be requested. Finally, if the password is supplied as an argument to `::hmsCappInit::StartHMSCapp`, it will not be requested.
Auto Logon Using System Name	*Yes* or *No*	Medium	This parameter indicates whether or not CAPP should attempt an auto login using the current operating system username as the CAPP user. If that user is a valid CAPP user, the system will log in without posting the *Login* window. If the *Always Require User Password* parameter is set to *Yes*, it will still prompt for password.
Check for Password	*Yes* or *No*	High	This parameter indicates whether or not the password should be ignored when logging into CAMS. The password can still be entered. This could be used by a login event to validate the password in an external application, such as LDAP. If this parameter

Parameter	Valid Values	Criticality	Description
			is set to *No*, CAMS will simply ignore the password when logging in.
Maximum Length of User ID	Number	Medium	This parameter indicates the maximum length of the user ID field. The database and screens will accommodate up to 20 characters, but the default is set to 10 for backwards compatibility. If you do set it to more than 10, you need to make sure that all the customer-specific tables that store USER_ID are set to the higher number as well, for example signoff, header, etc.
Same Password Rules for CAPP and SFM	*Yes* or *No*	Medium	This parameter indicates whether or not all CAMS modules (CAPP and SFM) use the same password validation algorithm and password expiration rules.
Minimum Length of Password	Number; 0 means no minimum	Low	This parameter indicates the minimum length required for all user passwords.
Password Must Contain Letter Character	*Yes* or *No*	Low	This parameter indicates whether or not the user password must contain at least one letter (non-numeric, non-special) character.
Password Must Contain Number Character	*Yes* or *No*	Low	This parameter indicates whether or not the user password must contain at least one numeric character.
Password May Contain Special Characters	*Yes* or *No*	Low	This parameter indicates a user password may contain one or special (non-letter, non-numeric) characters.
Password Must Contain Special Characters	*Yes* or *No*	Low	This parameter indicates a user password must contain one or special (non-letter, non-numeric) characters.
Password May Contain White Space (blank)	*Yes* or *No*	Low	This parameter indicates a user password may contain a white space (blank) character.
Password Must Contain Number or Special	*Yes* or *No*	Low	This parameter indicates a user password must contain at least one numeric character or at least one special character.
Password Must be Mixed Case	*Yes* or *No*	Low	This parameter indicates a user password must contain both uppercase and lowercase characters.
Password Number of Upper Case Letters	Number; 0 means no requirement	Low	This parameter indicates the number of uppercase letters required in a user password.

Parameter	Valid Values	Criticality	Description
Password Number of Lower Case Letters	Number; 0 means no requirement	Low	This parameter indicates the number of lowercase letters required in a user password.
Password Number of Numbers	Number; 0 means no requirement	Low	This parameter indicates the number of numeric characters required in a user password.
Password Number of Special Characters	Number; 0 means no requirement	Low	This parameter indicates the number of special characters required in a user password.
Password First Character Letter	*Yes* or *No*	Low	This parameter indicates whether or not the first character of a user password must be a letter character.
Password Last Character Letter	*Yes* or *No*	Low	This parameter indicates whether or not the last character of a user password must be a letter character.
Password First Character Number	*Yes* or *No*	Low	This parameter indicates whether or not the first character of a user password must be a numeric character.
Password Last Character Number	*Yes* or *No*	Low	This parameter indicates whether or not the last character of a user password must be a numeric character.
Password First Character Special	*Yes* or *No*	Low	This parameter indicates whether or not the first character of a user password must be a special character.
Password Last Character Special	*Yes* or *No*	Low	This parameter indicates whether or not the last character of a user password must be a special character.
Password Non-Repeat Cycles	Number; 0 means no check against previous password	Low	This parameter indicates the number of different passwords that must be used before the same password can be used again.

2.3.5 Globalization Configuration Parameters

The *Globalization* configuration parameters govern the display of dates and time and the default time zone.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CAPP* menu. In the *CAPP Parameters* dialog box, click the *Globalization Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Globalization of Date	*Yes* or *No*	High	This parameter indicates whether or not the system will display the date/times using the Local Time Zone for the user.
Default Time Zone	Time zone from the *Time Zone* table or *local*, which indicates that the time zone is that of the database server	Medium	This parameter contains the name given to the default time zone in the Time Zone table (accessed from *Maintenance* → *Validation Tables*).

2.3.6 Customer Configuration Parameters

The *Customer* configuration parameters control the customer name and software version that displays in certain CAMS screens.

To edit these configuration parameters select the CAPP *Maintenance* → *Configuration Parameters* → *CAPP* menu. In the *CAPP Parameters* dialog box, click the *Customer Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Customer Name	Entry	Medium	This parameter contains the customer name that should display on some screens and in the *Help / About* window.
Customer Software Version	Entry	Low	This parameter contains the customer software version that should display in the title of some screens and in the *Help / About* window.

2.3.7 Common Configuration Parameters

The *Common* configuration parameters cover ten different areas that apply across applications:

- Standard Library Parameters
- Shop Buyoff Parameters
- Highlight/Color Parameters
- E-mail Parameters
- Graphics Parameters
- Transaction Deamon Parameters
- Miscellaneous Parameters
- Right Hemisphere ActiveX Parameters
- PLM Vis ActiveX Parameters
- Spell Check Parameters

2.3.7.1 Standard Library Configuration Parameters

The Standard Library has five components:

- Standard Text, which is any word, phrase, sentence, paragraph, or group of paragraphs that has been categorized and saved for repeated use.
- Standard Documents or plans, which serve as templates for other documents, allowing users to quickly reuse data that is identical or very similar across documents.
- Standard Operations, which are created in standard documents, and serve as templates for other operations, allowing users to quickly reuse data that is identical or very similar across documents.
- Standard Processes, which consist of several standard operations that have been grouped together to outline how to perform a specific task.
- Standard Icons, which are used in conjunction with standard text to give users greater visibility to work instructions.

Not all Standard Library items apply to all applications; for example, standard operations and processes only apply to CAPP plans.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *Common* menu. In the *Common Parameters* dialog box, click the *Standard Library Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Default Applicability	*Default to ALL; Default to Current applicability; Default to Parent node applicability*	Medium	This parameter is used when setting the defaults for Applicability for newly created Standard Library items (Text, Operations, Plans, etc).
Apply Plan Type filter for Maint User	*Yes* or *No*	Medium	This parameter indicates whether or not to include plan type filtering in the Standards Library even for "edit" type users.
Apply Plan Type filter for Std Plans	*Yes* or *No*	Medium	This parameter indicates whether or not to include plan type applicability filtering for standard plans
Sub-Code Label	Entry	High	This parameter is used to enter the screen label for the *Standards Library Sub-Code* field. The default is *Sub Code.*

2.3.7.2 Shop Buyoff Configuration Parameters

In CAPP, plan authors can specify one or more shop buyoffs for a plan's operations and steps. For example, a single operation may require technician, mechanic, inspection, and quality buyoffs. The plan author can set up a buyoff cycle for the operation that requires that someone in each of these groups buyoff on the operation when the order is executed in SFM. The *Shop Buyoff* configuration parameters control this functionality.

To edit these configuration parameters, select the CAPP *Maintenance → Configuration Parameters → Common* menu. In the *Common Parameters* dialog box, click the *Shop Buyoff Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Buyoffs using Signoff	*Yes* or *No*	High	This parameter indicates whether or not all buyoffs in the SFM module will be accomplished using the signoff style of buyoffs, as opposed to the standard text style of buyoffs.
Display Inspect Type field	*Yes* or *No*	Medium	This parameter determines whether or not the *Inspect Type* field is included in the listing of shop buyoff cycles.
Display Skip Allowed field	*Yes* or *No*	Medium	This parameter determines whether or not SFM users will be allowed to skip steps included in the list of shop buyoff cycles.
Display Certification Check field	*Yes* or *No*	Medium	This parameter determines whether or not the *Certification Required* field is included in the listing of shop buyoff cycles.

2.3.7.3 Highlight and Color Configuration Parameters

The *Highlight/Color* configuration parameters control such things as the color of mandatory and editable fields and the Where Used highlight color.

To edit these configuration parameters, select the CAPP *Maintenance → Configuration Parameters → Common* menu. In the *Common Parameters* dialog box, click the *Highlight/Color Parameters* bar.

Some of these configuration parameters have a *Doc Level* check box. Selecting this check box allows the configuration parameter to be set at the document level rather than globally. This means different documents can have different settings, e.g., different colors for mandatory fields. See Editing Document-Level Configuration Parameters on page 35 for more details on how to work with these types of configuration parameters once they are activated.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description	Doc Level
Highlight Mandatory fields	*Yes* or *No*	Low	This parameter indicates whether or not mandatory fields should be highlighted for windows posted for user entry.	Yes

Parameter	Valid Values	Criticality	Description	Doc Level
Mandatory field color	Color; default is #b9ffff; value must be selected from a color pop up	Low	This parameter indicates the background color to use to indicate which fields on a window are mandatory.	Yes
Editable field color	Color; default is #ffffff; value must be selected from a color pop up	Low	This parameter indicates the background color to use to indicate which fields on a window are editable.	Yes
Non-editable field color	Color; default is #ffffff; value must be selected from a color pop up	Low	This parameter indicates the background color to use to indicate which fields on a window are editable.	Yes
White color	Color; default is #ffffff; value must be selected from a color pop up	Low	This parameter indicates the white background color.	Yes
Where-Used field color	Color; default is #ffffff; value must be selected from a color pop up	Low	This parameter indicates the background color to use to indicate which fields on a window are set up to use the Where-Used (search) function.	Yes
GUI Color Theme	*SAP – Black text on light blue background* or *Classic HMS – Black text on gray background*	Low	This parameter determines the main color theme to be used throughout the CAMS application.	NA

2.3.7.4 Email Configuration Parameters

The *Email* configuration parameters control such things as the Simple Mail Transfer Protocol (SMTP) host and port for emails sent by CAMS.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *Common* menu. In the *Common Parameters* dialog box, click the *Email Parameters* bar.

Implementing the email functionality requires implementation steps beyond setting configuration parameters. See the *Implementing E-mails from CAMS Applications* section of the *CAMS Implementation Guide* for details.

Also, see Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
SMTP host name	Entry	Medium	This parameter identifies the SMTP email server for this site.
Authorized user name for e-mail	Entry	Medium	This parameter identifies the authorized user name for email. If not required for site, may be any value.
Outgoing SMTP port for e-mail account	Entry	Medium	This parameter identifies the outgoing SMTP port for email accounts.
Max transaction wait time allowed (sec)	Number from 0 to 60; default is 60	Medium	This parameter identifies the maximum transaction wait time allowed in seconds.
Required blocking value	Entry; default is 0	Medium	This parameter identifies the required blocking value.
"From" address for e-mails	Entry	Low	This parameter identifies the From address for emails sent by CAMS.

2.3.7.5 Graphics Configuration Parameters

The *Graphics* configuration parameters control the display and printing of graphics in CAMS.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *Common* menu. In the *Common Parameters* dialog box, click the *Graphics Parameters* bar.

Implementing the PLM Vis graphic functionality requires implementation steps beyond setting configuration parameters. New customers should refer to the *CAMS Installation Guide* for instructions; existing customers should refer to the *CAMS Upgrade Master Guide* for instructions.

There are also additional PLM Vis parameters; see the *PLM Vis ActiveX Configuration* Parameters section on page 34.

Finally, see Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
PLM Vis popup viewer enabled	*Yes* or *No*	Medium	This parameter indicates whether or not the PLM Vis popup viewer is enabled and displays as a separate window. This requires additional configuration by SAP.
PLM Vis popup viewer w/o raster support	*Yes* or *No*	Medium	This parameter indicates that if the PLM Vis popup viewer enabled parameter is set to *Yes*, then raster files will not be launched in the PLM Vis popup viewer. This parameter is meaningless if the *PLM Vis popup viewer enabled option* is set to *No*.
PLM Vis popup viewer w/o vector support	*Yes* or *No*	Medium	This parameter indicates that if the *PLM Vis popup viewer enabled* parameter is set to *Yes*, then vector files will not be launched in the PLM Vis popup viewer. This parameter is meaningless if *the PLM Vis popup viewer enabled option* is set to *No*.
Default LMB down mode (zoom or pan)	*Yes* or *No*; *Yes* = Pan mode; *No* = Zoom mode	Low	This parameter indicates the default behavior of when a user presses and holds the left mouse button when inside a graphic widget.
Handle WMF files	*Yes* or *No*	Medium	This parameter indicates the system will be handling WMF type graphics files.
Scale conversion for WMF format	Entry; default is 20	Medium	This parameter indicates the scale conversion factor for WMF format graphic files.
Display depth for WMF format	Entry; default is 3	Medium	This parameter indicates the display depth for WMF format graphic files. (3 = 1 bit plane using average BITONAL.)
Print depth for WMF format	Entry; default is 8	Medium	This parameter indicates the print depth for WMF format graphic files.
Anti-Alias Algorithm	*Anti-aliasing is not used; anti-aliasing for all non-1bit color spaces; White pixels will be preserved while scaling; Black pixels will be preserved while scaling;* or *the scale to gray algorithm is used and the output images becomes 4 bits per pixel*	Medium	This parameter indicates the anti-alias method to use when displaying/printing raster graphics. This setting is useful for some special case images that have very large extents.
Anti-Alias Threshold	0 to 100; default is 0	Medium	This parameter indicates the anti-alias threshold value to use when displaying /

Parameter	Valid Values	Criticality	Description
			printing raster graphics. This setting is useful for some special case images that have very large extents. The following, from the Accusoft ImageGear manual, defines the threshold value. "`AliasMode`" refers to the "algorithm" value described above: Threshold integer value from 0 to 100. Its meaning depends on the `AliasMode` value. If `AliasMode` is set to IG_DSPL_ANTIALIAS_SCALE_TO_GRAY then `AliasThreshold` determines how many black and white pixels are involved in the destination gray pixel value. Value 100 causes ImageGear to take 100% white pixels, value 0 causes ImageGear to take 100% of black pixels, and the default value is 50 which means 50% of white and 50% of black pixels. If `AliasMode` is set to IG_DSPL_ANTIALIAS_PRESERVE_BLACK, then `AliasThreshold` determines how many black pixels should be preserved. Value 100 means that 100% of black pixels are preserved. If `AliasMode` is set to IG_DSPL_ANTIALIAS_PRESERVE_WHITE, then `AliasThreshold` determines how many white pixels should be preserved. Value 100 means that 100% of white pixels are preserved.
Use Sub-Sampling During Anti-Aliasing	*Yes* or *No*	Medium	This parameter indicates if sub-sampling should be used during anti-alias scaling. This setting is useful for some special case images that have very large extents.
Print PNG Type Graphics	*Yes* or *No*	Medium	This parameter indicates that PNG graphic files will be used in CAMS.

2.3.7.6 Transaction Deamon Configuration Parameters

The Transaction Daemon is used to handle certain tasks in the background (i.e., without user intervention). It is frequently used for the SFM Order Create transaction, but can be used for other background processes.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *Common* menu. In the *Common Parameters* dialog box, click the *Transaction Daemon Parameters* bar.

Implementing the Transaction Daemon requires installation and implementation steps beyond setting configuration parameters. Refer to the *CAMS Installation Guide* for instructions.

Also, see Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Use Trans Deamon for SFM Order launch	*Yes* or *No*	Medium	This parameter indicates whether or not the internal (SFM) order launch should use the Transaction Deamon if required.
Host name for Transaction Deamon	Entry, IP address or valid host name	Medium	If the Transaction Deamon is being used, then this parameter identifies the host information for where the server is. This can be either an IP address or a valid host name (entry must exist in DNS or hosts file).
Port for Transaction Deamon	Entry; default is 2541	Medium	This parameter identifies the port where the Transaction Deamon is listening. This must be a numeric value (2541 is default port for tx Deamon).

2.3.7.7 Miscellaneous Configuration Parameters

The *Miscellaneous* configuration parameters control a variety of functions, such as data segmentation, the was/is diff program, and virus scanning of documents.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *Common* menu. In the *Common Parameters* dialog box, click the *Miscellaneous Parameters* bar.

Implementing certain functionality, such as data segmentation, requires implementation steps beyond setting configuration parameters. Refer to the *CAMS Implementation Guide* for instructions.

Also, see Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Maximum length for text paste	Number; default is 0	Medium	This parameter indicates the maximum number of characters that can be pasted into a text box. If the value is 0, then no limit is imposed.
Include grid lines in table widget print	*Yes* or *No*	Low	This parameter determines whether or not gridlines are printed when a table widget gets printed using the *Print* button or function.
Location of UNIX resource file	Entry	Medium	This parameter can be used to define the location of the UNIX resource file. If it is not defined, it will use the one that is shipped in the home directory.

Parameter	Valid Values	Criticality	Description
Display user ID on CAMS icon	*Yes* or *No*	Low	This parameter indicates whether or not the system should use the user ID as the label when the CAMS window is minimized.
Variable to add to Main Title	Entry	Medium	This parameter indicates the name of the variable to add information to the main title (if any). This can be used to indicate the environment or database, e.g., test, production, etc.
Text for Cancel button(s)	Entry; default is *Cancel*	Low	This parameter indicates the label that should be used for *Cancel* buttons in CAMS.
Group mode Capp/SFM Security	Selection; see description	Medium	This parameter sets the security mode when accessing a CAMS document from Group Logon in SFM. Options are: • *No security. Allow free movement between SFM and CAPP without checking for CAPP logon.* • *Save incomplete on return to CAPP during edit of a document if the new CAPP login ID is different than the prior one.* Potential hole exists if the save incomplete cannot occur due to missing mandatory data or custom business rules. • *Save incomplete on leaving CAPP during edit of a plan. If returning to CAPP with a new login ID, quit the current plan.* • *Don't allow to leave CAPP in edit or view mode.*
Diff (Was/Is) program	Entry	Medium	This parameter allows you to define the diff program to use. If the value is `tkDiff`, the system will operate as it always has, given that beginning with version 7.1 (7.0SAP), tkdiff is no longer shipped with the system. If the value is `tkdiff`, you must list a directory for tkDiff that is outside the CAMS directory structure in the *Location for tkDiff program/code* configuration parameter just below. Otherwise, the value needs to be the full path to the executable to use to do the file comparison, e.g., `C:/Program Files/WinDiff/WINDIFF.EXE`.

Parameter	Valid Values	Criticality	Description

Location for tkDiff program / code	Entry	Medium	This parameter allows you to use tkDiff, but have the tkDiff program located outside the CAMS directory structure. This is accomplished by setting diffProgramDir to the location containing the following files:
			• Windows platform
			`diff.exe`
			`tkdiff` (Tcl source file)
			`_tkdiff.rc` (optional file)
			• Non-Windows platform
			`diff`
			`tkdiff` (Tcl source file)
			`.tkdiffrc` (optional file)
			(e.g., `C:/Program Files/tkDiff`)

Always use Bind style SQL queries	*Yes* or *No*	High	This parameter indicates whether or not queries that do not use binds should automatically be converted on the fly to use them. The option to turn this off is provided in case problems arise.
Location of java JAR files	Entry	Medium	This parameter defines the directory where customer implementation-specific JAVA jar files are kept. Any *.jar or *.zip files found in this directory will be added to the `CLASSPATH` variable when the Java interface is initialized.
Error log directory	Entry	Low	This parameter indicates the desired location (directory) for system-generated error files.
Password file for error log files	Entry	Medium	This parameter indicates the name of the file containing the password for access to error log directory (if required).
Data Segmentation Access filter active	*Yes* or *No*	High	This parameter indicates whether or not data segmentation by access codes is activated.
Data Segmentation Program filter active	*Yes* or *No*	High	This parameter indicates whether or not data segmentation by programs is activated.
Display last login date at login	*Yes* or *No*	Low	This parameter indicates whether or not the system should display the last successful login date when a user logs into the CAMS system.

Parameter	Valid Values	Criticality	Description
Path for iSpell program	Entry	Medium	This parameter is used to note the setup path to iSpell spell-check executable (which MUST use the iSpell program). If the platform is Windows, this folder must include the following files: • `cygwinb19.dll` • `english.windows.hash` • `ispell.exe` If the platform is UNIX, this folder must include the following files: • `english.hp-ux.hash` (where `hp-ux` will represent the appropriate UNIX platform) • `ispell` If configured, value should be set to something like: `C:/Program Files/ispell` (where `ispell` is the folder containing the required files).
Ignore End Item Unit Check	*Yes* or *No*	Medium	This parameter indicates whether or not the system should ignore the end item unit check when changing parents of component parts in BOMM. If the value is *Yes*, then the system will not perform this check.
Prompt Before Rounding Decimal Numbers	*Yes* or *No*	Medium	This parameter indicates whether or not the system should prompt the user before automatically rounding a decimal number to fit into the predefined number of decimal places.
Skip Std Text Entry Widget Auto-Resize	*Yes* or *No*	Medium	This parameter indicates whether or not the system should skip the auto-resizing of standard text entry widgets. They are usually resized based on the actual data contained in the widget. If the value is *Yes*, then the system will not auto-resize the standard text entry widgets.
Help File Location	Entry	Medium	This parameter indicates the location of the help files for the CAMS application.
TSM GUI File Path	Entry	Medium	This parameter indicates that the core TSM GUIs are to be replaced with the GUIs (of the same name) contained in the specified directory.  IT IS HIGHLY RECOMMENDED THAT THIS PARAMETER NOT BE SET, AND THAT THE CORE TSM GUIS BE USED WITHOUT MODIFICATION. Events exist

Parameter	Valid Values	Criticality	Description
			to allow certain changes to be made to how TSM Layup processing occurs. By default this parameter is not defined.
Auto Store Changes to Ply Layup Data	*Yes* or *No*	Medium	This parameter indicates that the system will not prompt the user when clicking rows in the *TSM Layup* list when changes have been made to the current ply row. It will automatically store the changes. This does not apply to when the *Close* button on the *Layup* window is clicked. The system will still prompt in that case.
Use Anti Virus Scanner	*Yes* or *No*	Medium	This parameter will turn on or off virus scanning of files imported into the system using any of the various File/Import functions. If this is set to *Yes*, then there needs to be a value defined for *Virus Scan Adapter DLLs* configuration parameter below.
Virus Scan Adapter DLLs	Entry	Medium	This parameter identifies a list of 32-bit Vendor Virus Scan Adapter (VSA) DLLs. Initialization will be attempted starting with the first DLL on the list, e.g. `"C:/Program Files (x86)/Common Files/McAfee/Engine/vsnai.dll" "c:/Program Files (x86)/Common Files/McAfee/Engine/vsmai.dll".`

2.3.7.8 Visual Enterprise ActiveX Configuration Parameters

SAP Visual Enterprise Generator (formerly known as Right Hemisphere/Deep Server) is used to populate the 3D part instance in BOMM. It is also used to generate the 3D model files that are displayed in BOMM, CAPP, and SFM, which are viewed using

The *Visual Enterprise Viewer ActiveX* configuration parameters govern the use of Visual Enterprise Viewer, which is used to view 3D graphics and graphic models in CAMS.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *Common* menu. In the *Common Parameters* dialog box, click the *Visual Enterprise ActiveX Parameters* bar.

Implementing this functionality requires installation steps beyond setting configuration parameters. Refer to the *CAMS Installation Guide* for instructions.

Also, see Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
VE Integrated	*Yes* or *No*	Medium	This parameter identifies whether or not the Visual Enterprise Viewer logic is activated.
VE File Types	File type; default is *rh*	Medium	This parameter identifies the file types that Visual Enterprise Viewer can access/load. At this time, CAMS only supports the `rh` file type for BOMM graphics/models and the operation allocation function in CAPP. However, users can attach and view other file types, but only as manufacturing graphics (operation work instructions). See the *CAMS Implementation Guide* for the file types. You must then define the file types in this parameter.
VE Collaboration user	User ID	Medium	This parameter identifies the default user ID forVisual Enterprise Viewer collaborations. All collaborations will be saved with this user ID.
VE Viewer Program ID	Program ID; default is *ExplorationX. mainSTA.1* and should not be changed	Medium	This parameter identifies the Program ID for creating embedded Visual Enterprise Viewer activeX controls.
VE Generator User	Entry	Medium	This parameter should list the Visual Enterprise Generator user name that has access to the Web Service Description Language (WSDL) interface
VE Generator Password	Entry	Medium	This parameter should list the Visual Enterprise Generator password that gives access to the WSDL interface. Once entered, the password displays as hash marks.
VE Generator WSDL Address	Entry	Medium	This parameter identifies the address of the Visual Enterprise Generator WSDL file.
Full path of Parsed WSDL File	Entry	Medium	This parameter should list the full file path to the WSDL file used to pass data in or out in order to transfer requests and results generated from calls to Web Services.
VE Generator File Extraction Path	Entry	Medium	This parameter should identify the directory into which Visual Enterprise Generator `RH` files will be extracted for loading into CAMS. For example: //usasap138990/RHShared.
Default Assembly Part Type	Entry	Medium	This parameter identifies what part type to assign to assembly parts that are imported from Visual Enterprise Generator.

Parameter	Valid Values	Criticality	Description
Default Component Part Type	Entry	Medium	This parameter identifies what part type to assign to component parts that are imported from Visual Enterprise Generator.
Default CAGE Code	Entry	Medium	This parameter identifies what CAGE Code to assign to parts that are imported from Visual Enterprise Generator.
Default Plant	Entry	Medium	This parameter identifies what plant to assign to parts that are imported from Visual Enterprise Generator.

2.3.7.9 PLM Vis ActiveX Configuration Parameters

Users can view and annotate vector graphics, 2-D graphics, and 3-D graphic models in CAMS. CAMS currently supports integration to PLM Vis 8.1.

The *PLM Vis ActiveX* configuration parameters govern the use of PLM Vis in CAMS.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *Common* menu. In the *Common Parameters* dialog box, click he *PLM Vis ActiveX Parameters* bar.

Implementing this functionality requires installation steps beyond setting configuration parameters. Refer to the *CAMS Installation Guide* for instructions.

Also, see Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
PLM Vis 2D ActiveX	*Yes* or *No*; default is *No*	Medium	This parameter identifies whether or not the PLM Vis 2D logic for vector graphics is activated.
PLM Vis 3D ActiveX	*Yes* or *No*; default is *No*	Medium	This parameter identifies whether or not the PLM Vis 3D logic for JT and other supported 3D formats is activated.

2.3.7.10 Spell Check Configuration Parameters

Users can spell check textual entries in the CAMS applications. CAMS 7.1 and later uses Spellex for its spell check functionality. The *Spell Check* configuration parameters control the settings for Spellex.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *Common* menu. In the *Common Parameters* dialog box, click the *Spell Check Parameters* bar.

Customers using CAMS releases prior to 7.1 can export words stored in the dictionary database table into an existing Spellex dictionary file or a new

dictionary file. See the *Exporting the Dictionary Database to a File* topic in the *CAMS System Maintenance* help for instructions.

If your existing implementation is currently using iSpell, you may continue to use it; however, SAP does not support the use of iSpell in CAMS Release 7.2 and iSpell is not included as part of the CAMS delivery package.

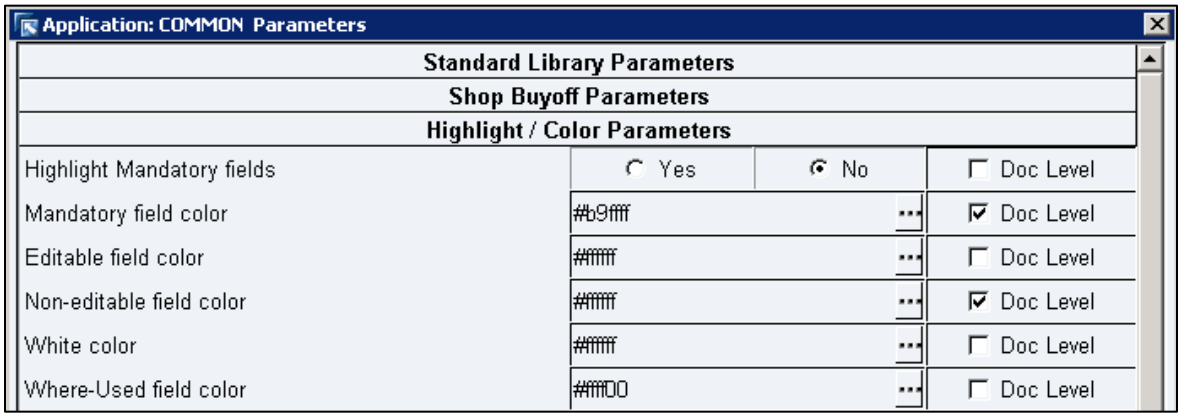
Finally, see Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Main Dictionary Path for Spellex	Entry	Medium	This parameter indicates the main dictionary path used by Spellex. The system will look in this path for the main dictionary files.
User Dictionary Path for Spellex	Entry	Medium	This parameter indicates the user dictionary path used by Spellex. The system will look in this path for the user dictionary files. Updating the user dictionaries requires the user be able to write to dictionary file.
Help File for Spellex	Entry	Medium	This parameter indicates the location of the Spellex help file. It requires a full path and file name. This setting can be used to include a custom help file or move the help file to a more secure location.

2.3.8 Editing Document-Level Configuration Parameters

Document-level configuration parameters apply to selected Common and CAPP configuration parameters. For these parameters, a *Doc Level* check box displays and is used to identify the configuration parameters that are set at the document level for the implementation.

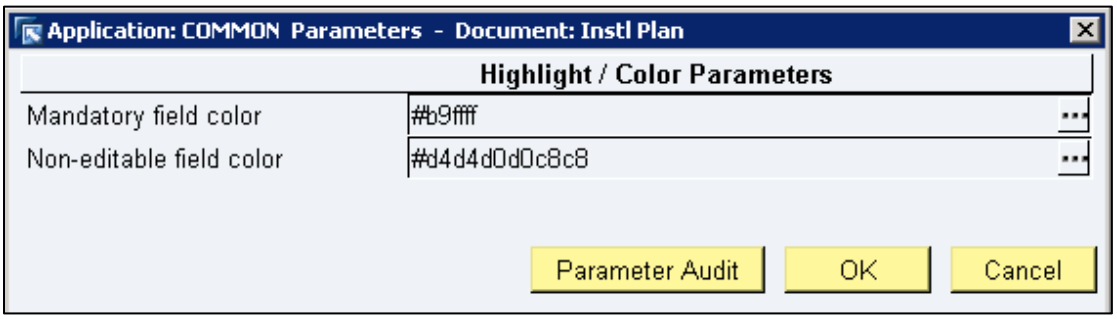
If a parameter, for example, *Mandatory field color* as shown below, is identified as being document-specific, then that parameter is expected to be defined for each existing document type, e.g., an installation plan or a fabrication plan, rather than globally within your implementation. Only parameters that can be set differently for CAPP document types have this check box.



If a parameter is defined as being set at the document level, users with a profile that is assigned *Document Maintenance* and configuration parameter edit privileges can edit these parameters.

To edit the parameters from *Document Maintenance*:

1. Select *Maintenance* → *Document*.
2. In the *Document Maintenance Selection* dialog box, select a document type in the *Available Documents* list and click *Edit Document.*
3. The *Document Format Maintenance* dialog box displays. Click the *COMMON Parameters* or *CAPP Parameters* button.
4. The *Common Parameters* or *CAPP Parameters* dialog box displays. Only those parameters that have been designated as being set at the document level are listed as shown in the example below. Complete or modify the field as explained in the appropriate Configuration Details section.



5. When finished, click *OK* to save.
6. A message displays asking you to confirm that you want to update the database. Click *Yes* to save or *No* to cancel the save.
7. Click *Cancel* to shut the *Document Format Maintenance* dialog box.
8. Click *Cancel* to shut the *Document Maintenance* selection dialog box.
9. If you clicked *Yes* in the update message, you must restart the application for your changes to be applied.

3 Business Scenarios

This section covers the CAMS business scenarios and the configuration required for the scenarios.

For each business scenario, the following topics are covered:

- Overview
- Configuration details

3.1 Define Product Structure

3.1.1 Overview

Using Bill of Material Management, users can create and manipulate the Engineering Bill of Material (EBOM) and the Manufacturing Bill of Material (MBOM) that defines the overall product assembly sequence or stages through which a product is built from its constituent parts and materials. This involves combining parts, materials, and sub-assemblies into complex assemblies that drive the CAPP planning process.

Implementing BOMM requires implementation steps beyond setting configuration parameters. Refer to the *CAMS Implementation Guide* for instructions.

3.1.2 Configuration Details

The BOMM configuration parameters are divided into eight sections:

- Interface Parameters
- Effectivity Parameters
- Part Parameters
- Document Parameters
- Miscellaneous Parameters
- CAPP Interface Parameters
- As Built Interface Parameters
- Customer Parameters

3.1.2.1 Interface Configuration Parameters

There are currently no interface configuration parameters.

3.1.2.2 Effectivity Configuration Parameters

The *Effectivity* configuration parameters define the settings for model, from, and through (thru) functionality.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *BOM* menu. In the *BOM Parameters* dialog box, click the *Effectivity Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Include Model	*Yes* or *No*	High	This parameter defines if model is a required field for effectivity data. *Yes* will include the *Model* field and *No* will not.
Model Field Length	Number	High	This parameter defines the length of the *Model* field for effectivity data.
Model Field Type	Valid values are values C=character, I=integer, R=real, or D=date	High	This parameter defines the date type for the model field for effectivity data.
Model Entry Proc Name	Valid entry proc; contact your SAP representative for details.	Medium	This parameter defines the entry proc for the model field.
Model Exit Proc Name	Valid exit proc; contact your SAP representative for details.	Medium	This parameter defines the exit proc for the model field.
Model Field Title	Entry	Medium	This parameter defines the title for the *Model* field.
Include Variant	*Yes* or *No*	High	This parameter defines if variant is a required field for effectivity data. *Yes* will include the *Variant* field and *No* will not.
Variant Field Length	Number	High	This parameter defines the length of the *Variant* field for effectivity data.
Variant Field Type	Valid values are values C=character, I=integer, R=real, or D=date	High	This parameter defines the date type for the *Variant* field for effectivity data.
Variant Entry Proc Name	Valid entry proc; contact your SAP representative for details.	Medium	This parameter defines the entry proc for the *Variant* field.
Variant Exit Proc Name	Valid exit proc; contact your SAP representative for details.	Medium	This parameter defines the exit proc for the *Variant* field.
Variant Field Title	Entry	Medium	This parameter defines the title for the *Variant* field.
From Field Length	Number	High	This parameter defines the length of the *From* field for effectivity data.
From Field Type	Valid values are values C=character, I=integer, R=real, or D=date	High	This parameter defines the date type for the *From* field for effectivity data.

Parameter	Valid Values	Criticality	Description
From Entry Proc Name	Valid entry proc; contact your SAP representative for details.	Medium	This parameter defines the entry proc for the *From* field.
From Exit Proc Name	Valid exit proc; contact your SAP representative for details.	Medium	This parameter defines the exit proc for the *From* field.
From Field Title	Entry	Medium	This parameter defines the title for the *From* field.
Thru Field Length	Number	High	This parameter defines the length of the *Thru* field for effectivity data.
Thru Field Type	Valid values are values C=character, I=integer, R=real, or D=date	High	This parameter defines the date type for the *Thru* field for effectivity data.
Thru Entry Proc Name	Valid entry proc; contact your SAP representative for details.	Medium	This parameter defines the entry proc for the *Thru* field.
Thru Exit Proc Name	Valid exit proc; contact your SAP representative for details.	Medium	This parameter defines the exit proc for the *Thru* field.
Thru Field Title	Entry	Medium	This parameter defines the title for the *Thru* field.
Iplan Alloc Eff by exception	*Yes* or *No*	High	This parameter defines if the effectivity for the installation plan allocation is by exception. *Yes* indicates effectivity by exception and *No* is just effectivity.

3.1.2.3 Part Configuration Parameters

The *Part* configuration parameters define such part settings as part types, invalid characters for parts, and whether or not plant-specific BOMs are used.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *BOM* menu. In the *BOM Parameters* dialog box, click the *Part Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Part Invalid Characters	Entry	Medium	This parameter defines the list of characters that may NOT be included in a part number, for example: ~ !@#$%^&*)+=`\
Job/Installation Kit Part Types	Entry	Medium	This parameter defines a list of part types for phantom job kits.
Installation Kit Parent Part Types	Entry	Medium	This parameter defines a list of parent part types for phantom installation kits.
End Item/Deliverable Part Type	Entry	Medium	This parameter defines part type for end item/deliverable parts.
Removals Part Type	Entry	Medium	This parameter defines part types for parts created through removals.
Allow Variations	*Yes* or *No*	High	This parameter defines whether the system will allow variations for a part revision.
Up Rev IK parents when Released	*No update; Update, no questions; Update, 1 question for all;* or *Update, 1 question per part*	Medium	This parameter defines if when modifying an installation kit, the parent should be updated if it is released.
Up Rev IK parents when Complete	*No update; Update, no questions; Update, 1 question for all;* or *Update, 1 question per part*	Medium	This parameter defines if when modifying an installation kit, the parent should be updated if it is complete.
Display of Non-viewable Components	*Do not show parts* or *Displays as asterisks*	Medium	This parameter defines how non-viewable parts are displayed when a part is opened or selected.
Replace with Man Alt Ignore Part Types	Entry	Medium	This parameter defines part types to ignore when looking for existing manufacturing alternates. This can be a list of part types.

Parameter	Valid Values	Criticality	Description
Net Change Compare Additional Key Cols	Valid columns	High	This parameter defines additional key columns in addition to the Part Number and CAGE Code to be used in determining differences in BOM structures during the send to change management BOM comparison process. These columns must be in the HMS_BOM_PART_USAGE table. If multiple columns are listed, separate them by a space.
Net Change Compare Additional Usage Cols	Valid columns	High	This parameter defines additional usage columns, in addition to quantity and effectivity, to check for differences during the send to change management BOM comparison process. These columns must be in the HMS_BOM_PART_USAGE table and be in the `hmsBomFabPartsList.gui` file. If multiple columns are listed, separate them by a space. If you want to include differences in the alternates, you must add column ALT_FLAG.
Include Alts on Drag and Drop/Save As	*Yes* or *No*	Medium	This parameter determines whether or not users are prompted to copy alternates when performing a drag/drop or Save As function.
Plant Specific BOMs active	*Yes* or *No*	High	This parameter determines whether or not plant-specific BOMs are active. This parameter MUST be set to *Yes* if the SFM *ERP Interface Active* parameter (described on page 169) is set to *Yes*.

3.1.2.4 Document Configuration Parameters

There are currently no document configuration parameters.

3.1.2.5 Miscellaneous Configuration Parameters

The *Miscellaneous* configuration parameters define the settings for CAGE Codes, what type of revision control is used, and more.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *BOM* menu. In the *BOM Parameters* dialog box, click the *Miscellaneous Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Title for the Main Window	Entry	Medium	This parameter defines the main window title and the main title on all child windows.
Default CAGE Code	Customer proc; contact your SAP representative for details	High	This parameter defines the default value to use for CAGE Code when none is specified by the user.
Tree Node Separator Character	Entry; default is ~	Medium	This parameter defines the character to use to separate the key part data that appears in the tree display of BOM.
Display CAGE Code	*Yes* or *No*	Medium	This parameter defines whether the CAGE Code will be displayed in BOMM.
Display Revision	*Yes* or *No*	Medium	This parameter defines whether the revision will be displayed in BOMM.
Line length of BOMM Error Messages	Number	Medium	This parameter defines the maximum width an error message can be.
Back off for BOMM Error Messages	Number	Medium	This parameter defines the back off or where to separate a line of an error message.
What type of revision control for MBOM	*Revision control; Part number control;* or *Determined by part type*	High	This parameter defines the type of revision control for the MBOM.
First rev for MBOM	Number	High	This parameter defines the first revision for an MBOM part.
First rev for EBOM - Part	Number or character	High	This parameter defines the first revision for an EBOM - Part based part.
First rev for EBOM – Drawing	Number or character	High	This parameter defines the first revision for an EBOM - drawing based part.
Location for BOMM GUI files	Customer proc; contact your SAP representative for details	High	This parameter defines the directory path for the BOMM .gui files.

Parameter	Valid Values	Criticality	Description
List of invalid part types for Iplans	Entry	Medium	This parameter defines the list of invalid part types for installation plans. If a part with a part type in this list has a usage for the end item, it will not be allowed to be attached to an installation plan part list. An example of a list would be - "End Item" "Flow Assy" "Phantom Assy" "Phantom Detail" "Raw Material".
Multiple End Items per plan	*Yes* or *No*	High	This parameter defines whether or not there can be multiple end items on one Installation plan.
Show max document revision	*Yes* or *No*	Medium	This parameter defines whether the maximum revision of a document should be shown or all revisions of the document should be shown.
Create Part Master from Components Area	*Yes* or *No*	Low	This parameter defines whether or not a part master can be created from the components area.
Activate BOMM History Tracking	*Yes* or *No*	Medium	This parameter defines whether BOMM History Tracking is active or not.
Include usage phantom column	*Yes* or *No*	Medium	This parameter defines whether the BOMM usage table will include the phantom column to define phantom usages.
Assign parts to Inst Plans by Allocation	*Yes* or *No*	No longer used	This parameter defines whether parts are assigned to installation plans with the allocation panel.
Usages can have 3D Part Occurrence Data	*Yes* or *No*	Medium	This parameter defines whether usages may have 3D Part Occurrence Data.
Product Def BOM XML Tagnames	XML tag entry	Medium	This parameter defines the XML tag names to use for the Product Def BOM function. Tag names must be enclosed in brackets, for example, {MFGNO graphic} {{DWGNO DWG_TYPE} drawing}.
Include ABOM Views	*Yes* or *No*	High	This parameter defines whether ABOM Views will be included in BOMM.
Force Eff if Unitized	*Yes* or *No*	High	This parameter defines whether or not to force effectivity for components of unitized parts.
Release parts to MRP	*Yes* or *No*	Medium	This parameter defines whether or not parts will be released to MRP.

Parameter	Valid Values	Criticality	Description
Inst Plan Revision Threshold	Number	Medium	This parameter defines the minimum number of completed installation plans before prompting user for permission to continue processing.
Part Types allowed to suspend P/N Cntrl	Part types, e.g., AY, IK, etc.	Medium	This parameter defines the allowable part types to have part number control suspended with the appropriate privilege.
MBOM Allow Drag and Drop	*Yes* or *No*	Medium	This parameter defines whether drag and drop will be allowed in the tree display in the MBOM View.
Allow Qty and Eff Edits	*Yes* or *No*	Medium	This parameter defines whether quantity and effectivity can be edited in the components area.
Display Drawing Rev in EBOM – Part View	*Yes* or *No*	Low	This parameter defines whether the Drawing Revision that created this EBOM Part Revision should be displayed.
New Model Incorp Effectivity Override	*Yes* or *No*	Medium	This parameter defines whether or not to override an existing usage effectivity with the new model effectivity.
List View Default Display Level	Number	Low	This parameter defines the default display level of components parts within the part list view.
Limit EIQ to first unitized part	*Yes* or *No*	Medium	This parameter defines whether or not to limit the End Item Query (EIQ) to only go to the first unitized part. If you choose *Yes*, the following assumptions are made: • A quantity of 1 for unitized parts. • No effectivity overlap for unitized parts • Child effectivities <= parent effectivities • Unitized parts MUST have effectivity
Prevent Serialization Demotion	*Yes* or *No*	Medium	This parameter defines whether or not to allow serial demotion. *Yes* does not allow it. When set to *No*, a *Serialization Demotion* warning will be displayed and the user will have the option to continue.

Parameter	Valid Values	Criticality	Description
Allow Lots in Lots	*Yes* or *No*	Medium	This parameter defines whether or not to when collecting serial/lot information for an order with a quantity greater than one, non-unitized lots in lots may be allowed. If allowed, the non-unitized component lot numbers must be identical for the entire order quantity.
Update Not Started Orders After Demotion	*Yes* or *No*	Medium	This parameter defines whether or not the system will update not started orders to remove the serial requirement for the part master when the serialized is set to null.
Reverse Substitute Alternate Terminology	*Yes* or *No*	High	This parameter defines whether or not to change the text on the *Create/View Substitutes* button to be *Create/View Alternates*. In addition, the screens that allow the user to view and add alternates and substitute parts will be updated.
Auto Accept Change Parent	*Yes* or *No*	Low	This parameter defines whether or not the system should automatically accept the change parent proposed solution. If set to *Yes*, no panel will be posted with the proposed solution and the system will automatically apply the proposed solution.

3.1.2.6 CAPP Interface Configuration Parameters

The *CAPP Interface* configuration parameters define such settings as the names of CAPP (or other) documents attached to BOMs, document abbreviations, and document image types used in the BOM tree.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *BOM* menu. In the *BOM Parameters* dialog box, click the *CAPP Interface Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Document Names	Entry	High	This parameter defines the names of documents to be attached to a BOM. Some of these values (for plans and tools) should be actual CAPP documents, while any “other” document names would be used for validation on

Parameter	Valid Values	Criticality	Description
			the *Action Items* sheet(s). The number of names entered here MUST match the number (and order) of the *Document Abbreviations* and *Document Image Types* entered below. Entries of two or more words must be enclosed in quotes, e.g., "Instl Plan" "Fab Plan". If they are not enclosed in quotes, they are optional.
Document Abbreviations	Entry	High	This parameter defines the abbreviations for documents that can be attachments to a BOM. These values should be in the valid documents table. Each of these values must be unique. For example, if there a two types of plans, Fabrication Plans and Installation Plans, they cannot both have the abbreviation "PLAN"; they MUST be different, e.g., "FPLAN" and "IPLAN." The number of abbreviations entered here MUST match the number (and order) of documents entered in the *Document Names* parameter. It is OK to enter "" for non-CAPP documents. Entries of two or more words must be enclosed in quotes, e.g., "I PLAN" "F PLAN". If they are not enclosed in quotes, they are optional.
Installation Plan Document Abbrv	Entry	High	This parameter tells BOMM the abbreviation of the installation plan document. Entries of two or more words must be enclosed in quotes, e.g., "I PLAN" "I STEP". If they are not enclosed in quotes, they are optional.
Document images types	Entry	Low	This parameter defines the image types for documents attached to the BOM. The number of image types entered here MUST match the number (and order) of documents entered in the *Document Names* parameter. Entries of two or more words must be enclosed in quotes, e.g., "IN PLAN" "FAB PLAN". If they are not enclosed in quotes, they are optional.
NMI Proc for new plan revision	Entry	Medium	This parameter defines the procedure for creating a new plan revision during the New Model Incorporation function.

Parameter	Valid Values	Criticality	Description
Create Plan Procedure	Entry	Medium	This parameter defines the procedure for creating new plans and/or new plan revisions.

3.1.2.7 As-Built Interface Configuration Parameters

The *As-Built Interface* configuration parameters define such settings as the activation of historical records for traceable and nontraceable parts and the names of CAPP (or other) documents attached to ABOMs, document abbreviations, and document image types used in the ABOM tree.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *BOM* menu. In the *BOM Parameters* dialog box, click the *As Built Interface Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Update Shop Order End Items	*Yes* or *No*	Medium	This value determines if reallocated shop orders are updated from the As Built system.
Activate Traceable Parts History	*Yes* or *No*	Medium	This value determines if history records are kept for traceable parts.
Activate Non Traceable Parts History	*Yes* or *No*	Medium	This value determines if history records are kept for nontraceable parts.
Document Names	Entry	High	This parameter defines the names of documents to be attached to an ABOM. Some of these values (for nonconformance records) should be actual CAPP documents. The number of names entered here MUST match the number (and order) of the *Document Abbreviations* and *Document Image Types* entered below. Entries must be enclosed in quotes, e.g., "Shop Order" "Non Conformance".

Parameter	Valid Values	Criticality	Description
Document Abbreviations	Entry	High	This parameter defines the abbreviations for documents that can be attachments to an ABOM. These values should be in the valid documents table. Each of these values must be unique. For example, if there a two types of orders, Fabrication Order and Installation Order, they cannot both have the abbreviation "ORDER"; they MUST be different, e.g., "FAB-ORD" and "INST-ORD." The number of abbreviations entered here MUST match the number (and order) of documents entered in the *Document Names* parameter. It is OK to enter "" for non-CAPP documents. Entries must be enclosed in quotes, e.g., "MFG" "NCM".
Document Image Types	Entry	Low	This parameter defines the image types for documents attached to the ABOM. The number of image types entered here MUST match the number (and order) of documents entered in the *Documents Names* parameter. Entries must be enclosed in quotes, e.g., “shoporder” “ncr”.
Allow Multi Level Explosion	*Yes* or *No*	Low	This value determines if multilevel explosion is allowed to apply accumulation data.
Planned As Part Columns	Column name	High	This value sets the Part Number and CAGE Code database columns, separated by a space, for the planned as part number in the CAMS-SHOP operation parts table. This is the original part number when a substitute or an alternate is used.
Hide Serial No Suffix	Entry	Low	This value sets the duplicate suffixes to hide in the tree display and the components area. This is a list of values. The suffix will be stripped from any serial number containing any of these values, e.g., -DUP on serial number 5232-DUP001 becomes serial number 5232.

3.1.2.8 Customer Configuration Parameters

Customer parameters are defined by your implementation.

3.2 Create Authority for BOM/Planning Changes

3.2.1 Overview

Manufacturing Change Management is used to initiate, document, monitor, and analyze engineering and manufacturing changes. It helps users determine what information (such as bills of material or CAPP process plans) and what physical items (such as tooling or equipment), are affected by a change requirement. Once the scope of the change impact is assessed, users can use MCM to plan the steps necessary to incorporate the effects of the change requirement.

Implementing MCM requires implementation steps beyond setting configuration parameters. Refer to the *CAMS Implementation Guide* for instructions.

3.2.2 Configuration Details

The MCM configuration parameters are divided into 12 sections:

- Header Data Parameters
- Status Parameters
- Part Parameters
- Document Parameters
- Execute Signoff Parameters
- Planning Action Parameters
- Tooling Action Parameters
- Other Action Parameters
- CAPP Interface Parameters
- Shop Interface Parameters (currently none)
- Miscellaneous Parameters
- “Custom” Work Queue Parameters

3.2.2.1 Header Data Configuration Parameters

The *Header Data* configuration parameters govern the MCM change record Header.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CM* menu. In the *CM Parameters* dialog box, click the *Header Data Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Criticality	Description
Change Record Name	High	This parameter defines the name of the controlling document for MCM. It will be used in user notification and other messages for planning activity for documents that are not the change record, but that are controlled by the change record. Shipped Value = Change Record
Database Table Name	High	This parameter defines the name of the database header table for the change record document. Shipped Value = MCM_HEADER

Parameter	Criticality	Description
Table Key Column Name	High	This parameter defines the key column name for the database header table for the change record document. Shipped Value = CR_KEY
Display Title for the Collector field	Low	This parameter defines the name of the display title for the collector field on the header sheet for the change document. Shipped Value = Collector
Name of the Collector Column	High	This parameter defines the name of the collector column for the change document. Shipped Value = cr_collector
Name of the Collector database sequence	High	This parameter defines the name of the collector database sequence generator for the next Collector value for the change document. Shipped Value = collector
Next Collector Method	Low	This parameter defines the default method of selecting the next Collector value for the Change document. Options are blank, "choose" (select from another change record), or "auto" (generate a new sequential number). If blank, the system prompts the user for the method. Shipped Value = blank
Engr Notes Database Table Name	High	This parameter defines the name of the database table for any Engineering Notes for the change document. Shipped Value = MCM_CR_NOTES

3.2.2.2 Status Configuration Parameters

The *Status* configuration parameters govern status columns and variables and are used to set the status names used in MCM.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CM* menu. In the *CM Parameters* dialog box, click the *Header Data Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Criticality	Description
Display Status Column Name	High	This parameter defines the name of the display status column for the database header table for the change document. Shipped Value = CR_DISPLAY_STATUS

Parameter	Criticality	Description
Display Status Variable Name	High	This parameter defines the name of the display status variable for the header sheet for the change document. Shipped Value = `::CustomerCm::header(changeStatus)`
Display Status Code Variable Name	High	This parameter defines the name of the display status variable for the change document. The variable holds one of the actual database values of COMMITTING, EXECUTION, and COMPLETE. Shipped Value = `::CustomerCm::header(changeStatusCode)`
Display Sub Status Column Name	High	This parameter defines the name of the display substatus column for the database header table for the change document. Shipped Value = CR_SUB_STATUS
Display Sub Status Variable Name	High	This parameter defines the name of the display status variable for the header sheet for the change document. Shipped Value = `::CustomerCm::header(changeSubStatus)`
Display Sub Status Code Variable Name	High	This parameter defines the name of the display substatus variable for the change document. The variable holds one of the actual database values of HELD, REJECT, or SUPERSD. Shipped Value = `::CustomerCm::header(changeSubStatusCode)`
Commit Phase Status Value	Medium	This parameter defines the value of the display status while the change document is in the COMMIT phase. Shipped Value = COMMITTING
Execute Phase Status Value	Medium	This parameter defines the value of the display status while the change document is in the EXECUTE phase. Shipped Value = EXECUTION
Complete Status Value	Medium	This parameter defines the value of the display status when the change document is complete and approved. Shipped Value = COMPLETE
Reject Status Value	Medium	This parameter defines the value of the display status when the change document is in a rejected condition. Shipped Value = REJECTED
On Hold Status Value	Medium	This parameter defines the value of the display status when the change document has been put on hold. Shipped Value = HELD
Superseded Status Value	Medium	This parameter defines the value of the display status when the change document has been superseded. Shipped Value = SUPERSEDED

Parameter	Criticality	Description
Held For Release Status Value	Medium	This parameter defines the value of the Action Item display status when an Action Item associated with the change document is complete and approved, but held for simultaneous release. Shipped Value = PENDING

3.2.2.3 Part Configuration Parameters

The *Part* configuration parameters govern the various parts tables and variables used in MCM.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CM* menu. In the *CM Parameters* dialog box, click the *Header Data Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Criticality	Description
Part List Database Table Name	High	This parameter defines the name of the database table for the part list (summary) table for the change document. Shipped Value = MCM_PART_LIST
Part Detail Subdocument Name	High	This parameter defines the name of the subdocument used to display the detail data for a part on the change document. Shipped Value = Part Detail
Part Material Subdocument Name	High	This parameter defines the name of the subdocument used to display the material data for a part on the change document. Shipped Value = Part Material
Part Removal Detail Subdocument Name	High	This parameter defines the name of the subdocument used to display the removal data for a part on the change document. Shipped Value = Part Removal
Part Comments Variable Name	High	This parameter defines the name of the variable that displays the comments data for a part on the change document. Shipped Value = `::CustomerCm::partComments`
Part Comment Flag Column Name	High	This parameter defines the name of the database table column that holds the Comment indicator flag for a part on the change document. This is a single character field in the Part List summary. Shipped Value = COMMENT_FLAG

Parameter	Criticality	Description
Part Notes Data Variable Name	High	This parameter defines the name of the variable that displays the Notes data for a part on the change document. Shipped Value = `::CustomerCm::partCRNotes`
Part Note Flag Column Name	High	This parameter defines the name of the database table column that holds the Note indicator flag for a part on the change document. Shipped Value = NOTE_FLAG
Part Material Database Table Name	High	This parameter defines the name of the database table used to store the material record data for a part on the change document. Shipped Value = MCM_MATERIAL_CHANGE_RECORD
Part Material Flag Column Name	High	This parameter defines the name of the database table column that holds the Material flag for a part on the change document. Shipped Value = MATERIAL_RECORD_FLAG
Part Reference # Column Name	High	This parameter defines the name of the database table column that holds the Reference Number for a part on the change document. Shipped Value = PART_REFERENCE
Part Comments Database Table Name	High	This parameter defines the name of the database table used to store the Comments data for a part on the change document. Shipped Value = mcm_part_comment
Part Engr Notes Database Table Name	High	This parameter defines the name of the database table for any Engineering Notes applied to individual parts on the change document. Shipped Value = MCM_PART_CR_NOTES
Part Action Table Widget Column #	High	This parameter defines the position of the Part Action column in the Parts List on the Change document. Shipped Value = 6
Part Number Database Column Name	High	This parameter defines the name of the Part Number database column in the Parts List on the Change document. Shipped Value = PART_NUMBER
Part Reference # Database Column Name	High	This parameter defines the name of the Part Reference # database column in the Parts List on the change document. Shipped Value = PART_REFERENCE
Part Description Database Column Name	High	This parameter defines the name of the Part Description database column in the Parts List on the change document. Shipped Value = PART_DESCRIPTION

Parameter	Criticality	Description
Effectivity Flag Database Column Name	High	This parameter defines the name of the database column that contains the Part List Effectivity flag. This is used when setting the flag on edit of part detail data if effectivity data is present. Shipped Value = EFFECTIVITY_FLAG
Part Effectivity Database Table Name	High	This parameter defines the name of the database table for any part effectivity data. Shipped Value = MCM_PART_EFFECTIVITY
Part Master Info Database Table Name	High	This parameter defines the name of the database table that contains the Part Master information. This is used to validate part numbers on entry by users. NOTE: This may also be the name of a view that points to another table. Shipped Value = HMS_BOM_PART_MASTER
Part Drawings Database Table Name	High	This parameter defines the name of the database table for any part drawings contained in the change document. Shipped Value = MCM_PART_DRAWINGS
Part Material Master Database Table Name	High	This parameter defines the name of the database table for master material information for individual parts on the change document. Shipped Value = MCM_PART_MATERIAL
Material Part # Database Column Name	High	This parameter defines the name of the Part Number column in the Part Material Master database table. Shipped Value = PART_NUMBER

Replaced Part Variable Names	High	This parameter defines the name of the variables for the Replaced Part Material data on the Material Record on the change document. These must associate with the variables listed in the parameter below (New Part Material Variable Names); there must be exactly the same number of variables listed in each of these parameters.
		Shipped Value =
		`::CustomerCm::replacedMatlCode`
		`::CustomerCm::replacedMatlDesc`
		`::CustomerCm::replacedMatlSpec`
		`::CustomerCm::replacedMatlName`
		`::CustomerCm::replacedMatlLength`
		`::CustomerCm::replacedMatlWidth`
		`::CustomerCm::replacedMatlThick`
		`::CustomerCm::replacedMatlMakes`
		`::CustomerCm::replacedMatlUOM`

Parameter	Criticality	Description

New Part Material Variable Names	High	This parameter defines the name of the variables for the
		New Part Material data on the Material Record on the Change document.
		These must associate with the variables listed in the parameter above (Replaced Part Variable Names) - there must be exactly the same number of variables listed in each of these parameters.
		Shipped Value =
		`::CustomerCm::matlCode`
		`::CustomerCm::matlDesc`
		`::CustomerCm::matlSpec`
		`::CustomerCm::matlName`
		`::CustomerCm::matlLength`
		`::CustomerCm::matlWidth`
		`::CustomerCm::matlThick`
		`::CustomerCm::matlMakes`
		`::CustomerCm::matlUOM`

Drawing key Column Name	Low	This parameter defines the name (if any) of the column in the Parts List table that indicates which drawing the part reference is associated with. Shipped Value = blank

3.2.2.4 Document Configuration Parameters

The *Document* configuration parameters govern the document tables and columns used in MCM.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CM* menu. In the *CM Parameters* dialog box, click the *Header Data Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Criticality	Description
Affected Documents Table Widget Name	High	This parameter defines the name of the table widget for any documents/drawings affected by the change document. Shipped Value = tableDocumentsAffected
Affected Documents Database Table Name	High	This parameter defines the name of the database table for any documents/drawings affected by the change document. Shipped Value = MCM_DOCUMENT_LIST

Parameter	Criticality	Description
Affected Documents - Doc # Column Name	High	This parameter defines the name of the Document Number column in the database table for any documents/drawings affected by the change document. Shipped Value = DOCUMENT_NUMBER

3.2.2.5 Execute Signoff Configuration Parameters

The *Execute Signoff* configuration parameters govern the Execution Signoff tables, sheets, and widgets used in MCM.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CM* menu. In the *CM Parameters* dialog box, click the *Header Data Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Criticality	Description
Execution Signoff Database Table Name	High	This parameter defines the name of the database table for the Execution Signoff for the change document. Shipped Value = MCM_EXECUTION_SIGNOFF
Execution Signoff Sheet Name	High	This parameter defines the name of the sheet containing the Execution Signoff data for the change document. Shipped Value = mcmSignoff
Execution Signoff Widget Name	High	This parameter defines the name of the widget containing the Execution Signoff data for the change document. Shipped Value = execSignoffTable

3.2.2.6 Planning Action Configuration Parameters

The *Planning Action* configuration parameters govern the tables, sheets, widgets, and columns used for planning action documents in MCM.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CM* menu. In the *CM Parameters* dialog box, click the *Header Data Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Criticality	Description
Planning Action Item Database Table Name	High	This parameter defines the name of the database table for the Planning Action Items for the change document. Shipped Value = MCM_AFFECTED_PLANS
Planning Action Item Sheet Name	High	This parameter defines the name(s) of the document sheet(s) for the Planning Action Items for the change document. The planning Action Item may appear on more than one sheet; however, if it does appear on more than one sheet, the number of widget names (see the next parameter) MUST match the number of sheet names. Shipped Value = mcmActionItems mcmActionPlans
Planning Action Item Widget Name	High	This parameter defines the name(s) of the widget(s) for the Planning Action Items for the change document. The planning Action Item may appear on more than one widget; however, if it does appear on more than one widget, the number of sheet names (see the previous parameter) MUST match the number of widget names. , Also, the widgets MUST NOT be on the same sheet. Shipped Value = tablePlans tablePlans
Planning Action Item KeyID Column Name	High	This parameter defines the name of the Key column for the Planning Action Items for the change document. Shipped Value = PLAN_KEY
Planning Action Item Expedite Column	High	This parameter defines the name of the expedite (flag) column for the Planning Action Items for the change document. Shipped Value = EXPEDITE_FLAG
Planning Part Action Database Table Name	High	This parameter defines the name of the database table that contains the part action information (old qty/new qty) as the Planning Action Items "allocate" parts for the change document. Shipped Value = MCM_PART_REVISED_PLANS
Planning Part Action Plan Column Name	High	This parameter defines the column in the database table that contains the plan number for the part action information as the Planning Action Items "allocate" parts for the change document. Shipped Value = PLAN_NUMBER

3.2.2.7 Tooling Action Configuration Parameters

The *Tooling Action* configuration parameters govern the tables, sheets, widgets, and columns used for tooling action documents in MCM.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CM* menu. In the *CM Parameters* dialog box, click the *Header Data Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Criticality	Description
Tooling Action Item Database Table Name	High	This parameter defines the name of the database table for the Tooling Action Items for the change document. Shipped Value = MCM_AFFECTED_TOOLS
Tooling Action Item Sheet Name	High	This parameter defines the name(s) of the document sheet(s) for the Tooling Action Items for the change document. The tooling Action Item may appear on more than one sheet; however, if it does appear on more than one sheet, the number of widget names (see the next parameter below) MUST match the number of sheet names. Shipped Value = mcmActionItems mcmActionTools
Tooling Action Item Widget Name	High	This parameter defines the name(s) of the widget(s) for the Tooling Action Items for the change document. The tooling Action Item may appear on more than one widget; however, if it does appear on more than one widget, the number of sheet names (see the previous parameter) MUST match the number of widget names. Also, the widgets MUST NOT be on the same sheet. Shipped Value = tableTools tableTools
Tooling Action Item KeyID Column Name	High	This parameter defines the name of the Key column for the Tooling Action Items for the change document. Shipped Value = TOOL_KEY
Tooling Action Item Expedite Column	High	This parameter defines the name of the expedite (flag) column for the Tooling Action Items for the change document. Shipped Value = EXPEDITE_FLAG

3.2.2.8 Other Action Configuration Parameters

The *Other Action* configuration parameters govern the tables, sheets, widgets, and columns used for other types of action documents in MCM.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CM* menu. In the *CM Parameters* dialog box, click the *Header Data Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Criticality	Description
Other Action Item Database Table Name	High	This parameter defines the name of the database table for the Other Action Items for the change document. Shipped Value = MCM_AFFECTED_DOCUMENTS
Other Action Item Sheet Name	High	This parameter defines the name(s) of the document sheet(s) for the Other Action Items for the change document. The Other Action Item may appear on more than one sheet; however, if it does appear on more than one sheet, the number of widget names (see the parameter below) MUST match the number of sheet names. Shipped Value = mcmActionItems mcmActionOther
Other Action Item Widget Name	High	This parameter defines the name(s) of the widget(s) for the Other Action Items for the change document. The Other Action Item may appear on more than 1 widget; however, if it does appear on more than one widget, the number of sheet names (see the previous parameter) MUST match the number of widget names. Also, the widgets MUST NOT be on the same sheet. Shipped Value = tableOther tableOther
Other Action Item KeyID Column Name	High	This parameter defines the name of the Key column for the Other Action Items for the change document. Shipped Value = DOCUMENT_KEY
Other Action Item Expedite Column	High	This parameter defines the name of the expedite (flag) column for the Other Action Items for the change document. Shipped Value = EXPEDITE_FLAG

3.2.2.9 CAPP Interface Configuration Parameters

The *CAPP Interface* configuration parameters define such settings as action item names and abbreviations and the related column and variable names.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CM* menu. In the *CM Parameters* dialog box, click the *Header Data Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Criticality	Description
Plan Action Item Key Column Names	High	This parameter defines the names of Key fields for the Planning Action Items for the change document. Shipped Value = PLAN_NUMBER PLAN_REV PLAN_TYPE ADDTL_KEY4
Tool Action Item Key Column Names	High	This parameter defines the names of Key fields for the Tooling Action Items for the change document. Shipped Value = TOOL_NUMBER TOOL_TYPE TOOL_DUP TOOL_SERIES ADDTL_KEY5
Other Action Item Key Column Names	High	This parameter defines the names of Key fields for the Other Action Items for the change document. Shipped Value = DOCUMENT_NUMBER DOCUMENT_REV DOCUMENT_TYPE ADDTL_KEY4
Action Item Document Names	High	This parameter defines the names of documents for the Planning Action Items for the change document. Some of these values (for plans and tools) should be actual CAPP documents, while any other document names would be used for validation on the Action Items sheet(s). Names must be in double quotes. The number of names entered here MUST match the number (and order) of abbreviations and action types (see the next two parameters). **Example Values:** "Fabrication Planning" "Installation Plan" "Tool Plan" "Drawing" "Sketch" "Photo" "Video" "Specification"

Parameter	Criticality	Description
Action Item Document Abbreviations	High	This parameter defines the abbreviations of documents for the Action Item documents for the change document. Each value must be unique. For example, if there are two documents, "Fabrication Planning" and "Installation Plan," they cannot both have the abbreviation "PLAN." They MUST be different, e.g., "FPLAN" and "IPLAN." Abbreviations must be in double quotes. The number of abbreviations entered here MUST match the number (and order) of documents and action types (see the next parameter). It is OK to enter "" for non-CAPP documents. **Example Values:** "FAB" "INST" "TOOL" "DRWG" "SKETCH" "PHOTO" "VIDEO" "SPEC"
Action Item Document Action Type	High	This parameter defines the action type of documents for the Action Item documents for the change document. It indicates which section of the Action Items sheet will be updated as work progresses. Each value MUST be either "plan," "tool," or "other." Types must be in double quotes. The number of action types entered here MUST match the number (and order) of documents. **Example Values:** "plan" "plan" "tool" "other" "other" "other" "other" "other"

Parameter	Criticality	Description
Action Item Document Key Column Names	High	This parameter defines the Key columns of documents for the Action Item documents for the change document. Each set of column names must be enclosed in double quotes. The number of sets of Key column names entered here MUST match the number (and order) of documents. These are not required for documents with Action Type = "other." As an example: consider two documents FabPlan and ToolPlan with Action Types = "plan" and "tool", respectively. Assume that the *Plan Action Item Key Column Names* (defined above) = PLAN_NUMBER PLAN_REV PLAN_TYPE and *Tool Action Item Key Column Names* = TOOL_NUMBER TOOL_TYPE TOOL_SERIES TOOL_DUP. Then there MUST be three columns identified for any "plan" document and four columns identified for any "tool" document (whatever the appropriate column names are for the document). So the proper entry for this parameter might be: "PART_NO REVISION DOC_TYPE" "TOOL_NO TOOL_TYPE SERIES DUP." **Example Values:** "PART_NUMBER PLAN_REVISION PLAN_TYPE" "PART_NUMBER PLAN_REVISION PLAN_TYPE" "TOOL_NUMBER TOOL_CLASS TOOL_CAT TOOL_MULTI"
Header Change Number Variable Names	High	This parameter defines the names of the variables on the Header of the documents identified above that contain the change number associated with the document. For example, if the Planning header sheet contains a field that identifies the change number that authorized the plan, this value is the variable of that field on the Plan header. The number of variable names entered here MUST match the number (and order) of documents. It is OK to enter "" for documents that do not display the associated Change Number. **Example Values:** "::Customer::headerChangeNumber" "::Customer::changeNumber" "" "" "" "" "" ""

Parameter	Criticality	Description
Action Item Document Header Tables	High	This parameter defines the name of the main Header table of documents for the Action Items for the change document. The number of Header tables entered here MUST match the number (and order) of documents, actions types, etc. It is OK to enter "" for non-CAPP documents. **Example Values:** "PLAN_HEADER" "PLAN_HEADER" "TOOL_HEADER" "" "" "" "" ""
Header Display Status Column Names	High	This parameter defines the names of the database columns on the Header of the documents identified above that contain the Display Status of the document (if any). This is used primarily for identifying documents as "PENDING" release upon change completion. The number of column names entered here MUST match the number (and order) of documents. It is OK to enter "" for documents that do not display a status value. **Example Values:** "" "" "" "" "" "" "" ""
Track Actual Hours Flag	High	If this parameter = Y, it indicates that actual hours are to be tracked against the specified document. Each value MUST be either Y or N. The number of tracking flags entered here MUST match the number (and order) of documents. **Example Values:** Y Y Y N N N N N
Prompt Actual Hours Flag	High	If this parameter = Y, it indicates that the user will be prompted to enter non-screen hours spent working the specified document. Each value MUST be either Y or N. The number of prompt flags entered here MUST match the number (and order) of documents above. **Example Values:** Y Y Y N N N N N
Attach Standard Documents Flag	High	If this parameter = Y, it indicates that standard documents are to be added to a change record. Each value MUST be either Y or N. The number of standard document flags entered here MUST match the number (and order) of documents above. **Example Values:** Y Y Y N N N N N

3.2.2.10 Shop Interface Configuration Parameters

There are currently no Shop Interface Configuration parameters.

3.2.2.11 Miscellaneous Configuration Parameters

The *Miscellaneous* configuration parameters define such settings as the labels for buttons, the *Work Queue* list order, the directories containing MCM files, and more.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CM* menu. In the *CM Parameters* dialog box, click the *Header Data Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Criticality	Description
Default Release Type for a Change	Medium	This parameter defines the default Release Type for new change records. The value MUST be *H, X,* or *A*: • *H* means Hold all plans for simultaneous release. • *X* means hold all plans, except those that are identified with an Expedite Flag = "X." • *A* means allow all plans to complete as they complete their signoff cycle. Shipped Value = A
Differences only on New C/R Issues	High	This parameter defines whether new issues of change records contain only the differences from prior issues or contain complete definitions of the change. Shipped Value = *Yes*
Limit Action Assignment to Execute list	Medium	This parameter defines whether assignments for Action Items are to be limited to only those users that appear on the Execution Signoff list for a change record. Shipped Value = *Yes*
Warn Planner on new additions	Low	This parameter defines whether to display a warning message to the planner when they create a new plan and associate it with a change record that does not contain the plan as a defined Action Item. The message is a warning only; the creation and association continues. Shipped Value = *Yes*
Order Work Queue list by date	Low	This parameter defines whether the retrieved change record Work Queue list (from planning) is by date or by the Key fields for the change record. Shipped Value = *Yes*

Parameter	Criticality	Description
Generic Work Queue Where clause	Medium	This parameter defines the generic string to add to the "where" clause whenever the Work Queue query is built. The query can be further modified using `::hmsCmEvents::PreIssueWorkQueueQuery`. Shipped Value = blank
Generic Work Queue From clause	Medium	This parameter defines the generic string to add to the "from" clause whenever the Work Queue query is built. The query can be further modified using `::hmsCmEvents::PreIssueWorkQueueQuery`. Shipped Value = blank
Label for Hold Button	Low	This parameter defines the text (label) that should appear on the button used to place a hold on a change record. Shipped Value = Put on Hold
Status line message for Hold Button	Low	This parameter defines the text to display in the status line when the cursor moves over the hold button. Shipped Value = Put current change record on Hold
Label for Hold Button	Low	This parameter defines the text (label) that should appear on the button used to remove a hold from a change record. Shipped Value = Remove Hold
Status line text for Remove Hold Button	Low	This parameter defines the text to display in the status line when the cursor moves over the remove hold button. Shipped Value = Remove Hold from current change record
Table to use to limit Section on Signoff	Medium	If this parameter is defined, the table is used to further restrict sections entered on the Signoff sheet to those contained in the change record header. If nothing is entered here, then any valid section can be entered into the Signoff sheet. Shipped Value = MCM_SECTION

Parameter	Criticality	Description
Namespace for Validation Procs	High	If this parameter is defined, it gives the namespace that will be used for any replacement validation procs. For example, if part numbers are validated (in core) using the proc `::xxxxxx::ValidateCmPartNumber`, then whenever this proc runs it will check to see if there is a "ValidateCmPartNumber" proc with the namespace identified in this parameter, such as proc `::Customer::ValidateCmPartNumber`. If such a proc exists, it will be executed instead of the core validation procedure. Shipped Value = blank
Directory containing C/M GUI Files	High	This parameter is used to define the system directory containing the MCM GUI files. Shipped Value = blank
Directory containing C/M Schedule files	*No* longer used	This parameter is used to define the system directory containing the files (Microsoft Project) that are used for the Action Item Scheduling and Workload Analysis functions. Shipped Value = blank
Path of C/M scheduling password file	*No* longer used	This parameter is used to define the directory that contains the password file (if required) for accessing the scheduling files on a network directory. Shipped Value = blank
User ID for Notification Messages	Low	This parameter is used to define the user ID that should be notified when MCM problems occur. Shipped Value = system

3.2.2.12 "Custom" Work Queue Configuration Parameters

The *"Custom" Work Queue Parameters* are reserved to support select special, complicated ("custom") implementations of MCM only. Implementers and customers should NOT use these parameters.

3.3 Create Fabrication, Assembly, Installation, and Tool Plans

3.3.1 Overview

CAPP defines and maintains the detailed processes that result in the manufacture of products as defined in the MBOM, including specification of all physical and information resources needed to support those processes. CAPP process plan types include installation; fabrication and assembly; tooling; rework; and special purpose.

3.3.2 Configuration Details

The CAPP configuration parameters are divided into 18 sections:

- Customer Parameters
- Revision History Parameters
- Standard Text Maintenance Parameters
- Electronic Signoff Parameters
- Login Parameters
- Create/Retrieve/Work List/Store Parameters
- Globalization Parameters
- Redline Parameters
- User *No*tification Parameters
- Summary Screen Parameters
- Subdocument Sheet Parameters
- Step/Page Parameters
- User Maintenance/Password Parameters
- Order Maintenance Parameters
- Document Effectivity Parameters
- Printer Server Parameters
- Operation Browser Parameters
- Miscellaneous Parameters

3.3.2.1 Customer Configuration Parameters

See Customer Configuration Parameters on page 20.

3.3.2.2 Revision History Configuration Parameters

The *Revision History* configuration parameters govern such settings as whether or not more than one revision of a plan can be in-work at a time; if the revision history is tracked for the operation vs. the plan; when users must enter revision descriptions; and more.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CAPP* menu. In the *CAPP Parameters* dialog box, click the *Revision History Parameters* bar.

Certain of these parameters have a *Doc Level* check box. Selecting this check box allows the parameter to be set at the document level rather than globally. This means different documents can have different settings, e.g., whether or not revision history is tracked per operation rather than by plan. See Editing Document-Level Configuration Parameters on page 35 for more details on how to work with these types of parameters once they are activated.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description	Doc Level
Multiple In-Work Revisions Allowed	*Yes* or *No*	High	This parameter indicates whether or not more than one revision of a specific plan may be in-work at a time.	Yes
Number of "C"omplete Revisions per Plan	Number; 0 indicates that an infinite number of revisions should remain online	Low	This parameter indicates the number of plans to leave in C (Complete) status. All older versions get set to Z status (for archiving).	Yes
Edit Highest Complete Plan Revision - Only	*Yes* or *No*	Medium	This parameter indicates whether or not only the highest complete revision of a plan can be edited to create a new revision.	Yes
Revision History per Operation	*Yes* or *No*	High	This parameter indicates whether or not revision history should be tracked per operation instead of by plan.	Yes
Enter History when saving Plan Incomplt	*Yes* or *No*	Medium	This parameter indicates whether or not the revision description dialog box should be posted on each store incomplete of a plan.	Yes
Enter History when Saving Oper Detail	*Yes* or *No*	Medium	This parameter indicates whether or not the revision description dialog box should be posted on a store sub-document complete. This only applies if summary signoff is defined for the document.	Yes
Enter History when Saving Plan Complete	*Yes* or *No*	Medium	This parameter indicates whether or not the revision description dialog box should be posted on a store complete of a plan.	Yes
Enter History on First Revision	*Yes* or *No*	Medium	This parameter indicates whether or not revision description should be collected for the first revision of a plan.	Yes
Enter History on Approval	*Yes* or *No*	Medium	This parameter indicates whether or not revision description should be collected during an approval of a plan.	Yes
Enter History when Approving at Sum Lvl	*Yes* or *No*	Medium	This parameter indicates whether or not revision description should be collected during a sub-document approval. This only applies if summary signoff is defined for the document.	NA

Parameter	Valid Values	Criticality	Description	Doc Level
Revise Plan from Another Plan	*Yes* or *No*	Medium	This parameter indicates whether or not a user can revise an existing plan from another plan. This will copy the selected plan to the next highest revision of the existing plan. It will not check the *Edit Highest Complete Plan Rev* parameter but it will check the *Multiple In-Work Revisions Allowed* parameter to see if the plan is already in-work. Before copying, the system will prompt the user to make sure. This will also work on a create plan as well. It will not copy a plan, but it will allow a creation of a higher revision.	NA
Number of Revisions to Display	Number; 0 indicates no limit	Low	This parameter indicates the number of revisions to include in the revision history display.	Yes
Revision Text Upper Case	*Yes* or *No*	Low	This parameter indicates whether or not revision description is restricted to uppercase characters. Any user input is converted to uppercase characters.	Yes
Enter Revision Text Using Dual Text Boxes	*Yes* or *No*	High	This parameter indicates whether or not revision notes will be displayed on a dialog box containing two text widgets. One text widget will hold the current revision notes and will be editable by the current user. The other will contain all previously entered revision notes and will be disabled. This configuration option must be used in conjunction with the dual text widget version of `revisionRecord.gui`.	Yes

3.3.2.3 Standard Text Maintenance Configuration Parameters

The *Standard Text Maintenance* configuration parameters control the standard text settings, including the default font, how standard text is sorted in the *Standard Library,* whether standard text must be uppercase, and more.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CAPP* menu. In the *CAPP Parameters* dialog box, click the *Standard Text Maintenance Parameters* bar.

Certain of these parameters have a *Doc Level* check box. Selecting this check box allows the parameter to be set at the document level rather than globally. This means different documents can have different settings, e.g., whether or not balloon help displays when hovering over standard text in CAPP. See Editing Document-Level Configuration Parameters on page 35 for more details on how to work with these types of parameters once they are activated.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description	Doc Level
Standard Text Default Font	Selection	Low	This parameter indicates the default font to use when creating all new standard text elements. If none is specified, none will be identified with the new standard text. This means that when a standard text element is inserted into a detail text box in a CAMS form, the text will assume whatever font is defined for the specific detail text box.	NA
Prompt for Open Order Update	*Yes* or *No*	Low	This parameter indicates whether or not the user should be prompted to update open SFM orders (not started operations only) when standard text is revised and generates a new revision.	NA
Always sort Std Library Nodes Alphabetically	*Yes* or *No*	Low	This parameter indicates whether or not nodes in the *Standards Library* tree are always sorted in alphabetical order, regardless of the create position. If set to *Yes*, nodes will always display in alphanumeric order. Otherwise, the nodes display in the order that they were entered.	NA
Entry Proc for Std Text Change No Window	Customer proc; please contact your SAP representative for details	Medium	This parameter contains the name of the entry proc for the change number entry widget in the standard text revision record GUI. It can be used to apply the customer's own validation rules to the change number if required. This proc is within a database transaction that starts when the user clicks the *Apply* button after editing text. If the user cancels the revision record window or the subsequent revision roll of the standard text key fails, any database changes made in this proc will also be rolled back.	NA

Parameter	Valid Values	Criticality	Description	Doc Level
Exit Proc for Std Text Change No Window	Customer proc; please contact your SAP representative for details	Medium	This parameter contains the name of the exit proc for the change number entry widget in the standard text revision record GUI. It can be used to apply the customer's own validation rules to the change number if required.  This proc is within a database transaction that starts when the user clicks the *Apply* button after editing text. If the user cancels the revision record window or the subsequent revision roll of the standard text key fails, any database changes made in this proc will also be rolled back.	NA
Access Std Text Maint from Order Maint	*Yes* or *No*	Medium	This parameter indicates whether or not standard text maintenance should be available from the Order Maintenance document. The default is *No*.	NA
Wrap Standard Text	*Yes* or *No*	Medium	This parameter indicates whether text wrapping should be on or off when the *Standards Library* dialog box is posted and the text is displayed.	NA
Default for Pointer Checkbox	*Yes* or *No*	Low	This parameter indicates whether new text created should default to pointer or nonpointer.	NA
Ignore Case on Std Text Search	*Yes* or *No*	Low	This parameter indicates whether or not text case should be ignored when performing searches for standard text based on matching text strings.	NA
Standard Text Always Upper Case	*Yes* or *No*	Medium	This parameter indicates whether or not the text code should be forced to uppercase during entry in maintenance and in the selection of standard text.	NA
Std Text Table – Minimum Visible Rows	Number; this value MUST not be less than 2 (1 title row and 1 data row).	Medium	This parameter indicates the minimum number of rows to display for an embedded standard text table widget.	NA

Parameter	Valid Values	Criticality	Description	Doc Level
Std Text Table – Maximum Visible Rows	Number	Medium	This parameter indicates the maximum number of rows that can display for an embedded standard text table widget. If more data rows exist than can be displayed, a scrollbar will appear to allow the user to see all data rows by scrolling the table.	NA
Std Text Table – Maximum Data Rows	Number	Medium	This parameter indicates the absolute maximum number of data rows that an embedded standard text table can contain before a warning is issued to inform the user that no further rows can be added.	NA
Std Text Table – Min Number of Columns	Number; this value MUST be at least 1	Medium	This parameter indicates the minimum number of columns for an embedded standard text table widget.	NA
Std Text Table – Max Number of Columns	Number	Medium	This parameter indicates the maximum number of columns that can be contained an embedded standard text table widget.	NA
Auto Load Balloon Help – CAPP Module	*Yes* or *No*	Low	This parameter indicates whether or not the balloon help displays when the cursor moves over standard text block. This applies to the CAPP module only.	*Yes*
Auto Load Balloon Help – SFM Module	*Yes* or *No*	Low	This parameter indicates whether or not the balloon help displays when the cursor moves over standard text block. This applies to the SFM module only.	NA
Auto Highlight Std Text in Textbox – CAPP	*Yes* or *No*	Low	This parameter indicates whether or not standard text in a text box should automatically be highlighted when a user clicks into a text box (as would occur if the user right-clicks and selects the *Highlight Std Text* function). This applies to the CAPP module only.	*Yes*
Auto Highlight Std Text in Textbox – SFM	*Yes* or *No*	Low	This parameter indicates whether or not standard text in a text box should automatically be highlighted when a user clicks into a text box (as would occur if the user right-clicks and selects the *Highlight Std Text* function). This applies to the SFM module only.	NA

Parameter	Valid Values	Criticality	Description	Doc Level
Always Check for Mand Embedded Widgets	*Yes* or *No*	Medium	This parameter indicates whether or not even if the textbox containing the standard text is not flagged as mandatory, the standard text widgets within the textbox will be checked for mandatory widgets/table columns. If a table widget contains any PLAN type columns that are mandatory, the planner user will be forced to enter at least one row of data.	*Yes*
Default Embedded Widgets to Mandatory	*Yes* or *No*	Medium	This parameter indicates whether or not when adding box definitions for a new standard text entry/table column it will be flagged as mandatory by default. The default is no.	NA
Allow Page Break Insertion	*Yes* or *No*	Low	This parameter indicates whether or not users are allowed to insert page breaks into standard text capable text fields. The default is *Yes*.	*Yes*

3.3.2.4 Electronic Signoff Configuration Parameters

The *Electronic Signoff* configuration parameters govern the settings for such things as whether or not uses can edit the original signoff lines, delete plans from the *Work List,* and whether the system should always present the *Signoff Cycle* selection dialog box on the first save complete.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CAPP* menu. In the *CAPP Parameters* dialog box, click the *Electronic Signoff Parameters* bar.

Certain of these parameters have a *Doc Level* check box. Selecting this check box allows the parameter to be set at the document level rather than globally. This means different documents can have different settings, e.g., whether or not the original signoff cycle can be edited or deleted. See Editing Document-Level Configuration Parameters on page 35 for more details on how to work with these types of parameters once they are activated.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description	Doc Level
Edit Original Signoff Lines	*Yes* or *No*	Medium	This parameter indicates whether or not the original signoff cycle can be edited or deleted. This is the signoff cycle selected from the signoff cycle list.	*Yes*

Parameter	Valid Values	Criticality	Description	Doc Level
Auto Load Work List	*Yes* or *No*	Low	This parameter indicates whether or not the *Work List* function should automatically load the *Work List* when the function is selected. If this is set to *No*, the user will need to click the *Refresh* button. This would be set to *No* if it is necessary to add customer specific filters using `::hmsCappEvents::PostBuildWorkListWindow`.	*Yes*
Show Work List Refresh Button	*Yes* or *No*	Low	This parameter indicates whether or not the *Refresh* button should be included on the *Work List* dialog box. If you set the *Auto Load Work List* parameter to *No*, you will need to have the *Refresh* button so users can load the data. Also, if you add any filters to the top frame using ::`hmsCappEvents::PostBuildWorkListWindow` you will probably want to have the button.	*Yes*
Allow Delete Plan from Work List	*Yes* or *No*	Medium	This parameter indicates whether or not the user has access to the *Delete* button on the *Work List* dialog box. To disable the button, set the variable to *No*. The Delete from Work List function does NOT mean that the user is deleting an item from the *Work List*. The Delete function actually deletes the plan represented by the *Work List* item.	*Yes*
Adding Signoff Cycle at Any Time	*Yes* or *No*	Medium	This parameter indicates whether or not a user can apply a signoff cycle even after editing the original signoff data by manually adding more signoff lines. This primarily impacts the initial save complete by the first user. By default, if there is more than one signoff line for the plan, the system will not add a predefined cycle. This parameter can be used to indicate that the system should always present the *Signoff Cycle* selection dialog box on the first save complete.	*Yes*

Parameter	Valid Values	Criticality	Description	Doc Level
Allow Recall After Plan Approval	*Yes* or *No*	Low	This parameter indicates whether or not a user can "bring back" a plan after completing/approving it in signoff if no activity has occurred by other users. The default is *Yes*; set to *No* if you want to eliminate the small possibility that an approver could be viewing a plan for approval that may be undergoing revision while the review is occurring. If the editing user saves changes before the approver user actually does the approval, it is possible that the data for the plan is different than that being viewed on-screen. Or if other operations get edited that the approver had already checked out, the same problem would occur.	*Yes*
Append Signoff Comments to Email	*Yes* or *No*	Low	This parameter indicates whether or not the signoff comments should be appended to email notification messages that get sent by the CAMS system as a result of a plan progressing through its signoff cycle.	*Yes*
Set E-mail From User to Current User	*Yes* or *No*	Low	This parameter specifies whether or not the "From User" name in the signoff email notification is set. "From User" normally appears blank in received emails. Setting this parameter to *Yes* will cause the current user's name (first and last) to be specified as the "From User."	*Yes*
Allow Release of Locks for Current User	*Yes* or *No*	Medium	This parameter indicates whether or not a user is allowed to release his or her own locks on a Header or Summary signoff. With this set to *Yes*, when a user attempts to edit a header or summary line that has the "IN_WORK" flag set on the signoff, if the user is the current user, the user is prompted if he or she wants to release the lock. If this is set to *No*, the user has to use the Release Lock function (if the user has the privilege) or contact a system administrator to unlock it.	*Yes*

3.3.2.5 Login Configuration Parameters

See Login Configuration Parameters on page 15.

3.3.2.6 Create/Retrieve/Work List/Store Configuration Parameters

The *Create/Retrieve/Work List/Store* configuration parameters govern the settings for plan creation, retrieval, and storing and for the *Work List.*

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CAPP* menu. In the *CAPP Parameters* dialog box, click the *Create/Retrieve/Work List/Store Parameters* bar.

Certain of these parameters have a *Doc Level* check box. Selecting this check box allows the parameter to be set at the document level rather than globally. This means different documents can have different settings, e.g., whether or not additional fields appear in the *Create Plan* dialog box. See Editing Document-Level Configuration Parameters on page 35 for more details on how to work with these types of parameters once they are activated.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description	Doc Level
Add Fields to Create Plan Window	Entry; contact your SAP representative for details	Medium	This parameter can be used to have additional header fields appear in the *Create Plan* dialog box. By default, only the header key fields are included. You can specify additional fields by specifying the widget name of the additional fields as defined in Designer. It should only be the ending name, not the full name. It is also possible to inter mix your additional fields within or even before the key fields for the document. This is accomplished by specifying the key field numbers within the variable below. If this method is used, ALL key field numbers must appear in the list defined by the parameter. Failure to include all of the key fields will result in an error message when the system attempts to build the *Create Plan* dialog box. set parameter = "comboTypePlan entPartRev" - or - set parameter = "comboTypePlan entPartRev 1 2 3" The *Create Plan* dialog box will add the widgets and use the same widget definitions as the underlying widget does, including variable name. All exit procs should work the same. Also, combo boxes will be built and valid tables, lists,	*Yes*

Parameter	Valid Values	Criticality	Description	Doc Level
			etc. will work as usual. You can use the `::hmsCappEvents::PreDoCreatePlan` to evaluate input into the window to determine if things were input as needed.	
Create Standard Plan Types	Entry; contact your SAP representative for details	Medium	This parameter also deals with the *Create Plan* dialog box. Normally, if a user/profile has the privilege to edit Standard Plans, the *Create Standard* button is available on the *Create Plan* dialog box. This parameter can be used to control which of the *Create* buttons are actually active on the dialog box. The default setup below is for normal circumstances. Both buttons will be active if the user can edit standard plans. If circumstances dictate that the *Create Standard* button should be active, but the *Create* button should not, then set as follows: set `::hmsCappConfig::createStandardPlanTypes "standard"` If neither normal nor standard are set, the system will treat as the default - where both buttons are active. If used, this variable should be set or changed in the event `::hmsCappEvents::PreCreatePlan` or `::hmsCappEvents::PreDisplayCreatePlanWindow`. If the profile does not have the privilege to edit standard plans, the *Create* button will always be active and the *Create Standard* button will not even be on the window. This parameter should very rarely be changed using this Configuration Parameter Maintenance function. The more appropriate place to handle changes would be in the aforementioned event procedures.	*Yes*

Parameter	Valid Values	Criticality	Description	Doc Level
Add To Retrieve Where Clause	Entry; contact your SAP representative for details	Medium	This parameter can be used to add additional search criteria to the standard retrieval. It will append the Where clause of the query that gets built to retrieve a list of plans. This is useful if you want to always limit the search to a certain set of criteria, for example, plan type, date, etc.  The system will supply the leading "AND" on the Where clause. If you provide multiple conditions, you need to include the additional "AND" between conditions. For example: PLAN_TYPE = ‘FAB’ AND SITE_CODE = ‘LA’	*Yes*
Add To Retrieve From Clause	Entry; contact your SAP representative for details	Medium	This parameter can be used to add additional search criteria to the standard retrieval. It will append the From clause of the query that gets built to retrieve a list of plans. This is useful if you want to always limit the search to a certain set of criteria (using data that is stored external to the header table for the plan).  The system will supply the leading "," on the From clause. If you provide multiple tables, you need to include the additional "," between table names.	*Yes*
Add To Work List Where Clause	Entry; contact your SAP representative for details	Medium	This parameter is the same as the *Add To Retrieve Where Clause*, except it applies to the user’s assigned *Work List* query.	*Yes*
Add To Work List From Clause	Entry; contact your SAP representative for details	Medium	This parameter is the same as the *Add To Retrieve From Clause*, except it applies to the user’s assigned Work List query.	*Yes*
Maximum Rows Retrieved Warning Limit	Number	Low	This parameter indicates the limit for the number of rows retrieved. This parameter works with the next parameter. This first parameter will cause the system to issue a warning and ask the user if he or she wants to continue when the number of rows specified in this parameter is exceeded during retrieval.	*Yes*

Parameter	Valid Values	Criticality	Description	Doc Level
Maximum Rows Retrieved Stop Limit	Number	Low	This parameter indicates the limit for the number of rows retrieved. This parameter works with the preceding parameter. This second parameter will cause the system to stop the retrieval process when the number of rows specified in this parameter is exceeded.	*Yes*
Default Retrieval Plan Status	*complete* *incomplete* *inwork* *archive* *all*	Medium	This parameter indicates the default retrieve status to be active when the *Retrieve Criteria* dialog box displays. You can specify multiple values as a list. If you specify "all," you should not include any other values.	*Yes*
Activate Standard Plan Retrieve Option	*Yes* or *No*	Medium	This parameter indicates whether or not the *Standard Plan* button should be active when the *Retrieve Criteria* dialog box displays.	*Yes*
Retrieve All Includes Archive Plans	*Yes* or *No*	Medium	This parameter indicates whether or not the retrieve "all" status should include archived plans as well.	*Yes*
Status Titles for Retrieval Criteria	*{Complete}* *{Incomplete}* *{Inwork}* *{Archived}* *{All}* *{Standards Only}*	Medium	This parameter allows you to define the titles that appear on the *Retrieve Criteria* dialog box. If you set a title to {} it will not appear as a check box. If you set all titles to null, then the status area will not appear and the default retrieve status will be "all."	*Yes*
Store Status Macro Name	Entry; contact your SAP representative for details	High	This parameter indicates the name of the proc that should be called instead of displaying the *Store Status* dialog box when storing a plan. The proc should return a status as follows: • "C" - complete for current user. This may or may not store the plan with a C" status depending on whether or not more signoff lines exist. If so, the plan is stored with an "I" status and sent to the next user. • "I" - store the plan incomplete.	*Yes*

Parameter	Valid Values	Criticality	Description	Doc Level
Store Complete Quits Plan Display	*Yes* or *No*	Low	When storing a plan complete, you have the option of leaving the plan on the screen in view mode or automatically quitting the plan (removing it from the display). This parameter indicates, if set to *No*, that the plan will not be removed from the screen, the *Retrieve* function button will be highlighted and the *Edit* function button turned off.	*Yes*
Save Blank Lines in Multi-line Lists	*Yes* or *No*	Medium	This parameter indicates whether or not blank lines in multiline widgets should be saved to the database. This is for blank lines in between other lines. Trailing blank lines are always deleted.	*Yes*
Bypass Auto Change Record Selection	*Yes* or *No*	Medium	This parameter indicates whether or not the user ALWAYS has the ability to select the change record for a new plan/revision when creating a plan from BOMM. By default the system will auto-select the same change record that is identified for the BOMM Part Revision.	*Yes*
Add Group/Filter Options to Work List	*Yes* or *No*	Medium	This parameter indicates whether or not extra check boxes should be added to the *Work List* and *Work Queue* dialog boxes to allow for additional filtering options. By default, these are not included—the Work List appears as it normally would. Set the value to *Yes* to cause the extra filtering check boxes to be added.  This feature is NOT available for the "Custom" implementation of MCM Work Queue.	*Yes*
Work List Filter Title	Entry	Medium	This parameter is related to the *Add Group/Filter Options to Work List* parameter. It provides the Title for an additional filter option for the *Work List* and *Work Queue* dialog boxes. The six Work List Filter parameters work together to define the specifics of the additional filter to be added to the dialog boxes. If the additional filter option is used, then this Title parameter is mandatory. This is the Title that will appear at the top of the list of values used for filtering the *Work*	*Yes*

Parameter	Valid Values	Criticality	Description	Doc Level
			List / Work Queue, for example, "Projects".  This feature is NOT available for the "Custom" implementation of MCM Work Queue.	
Work List Filter Column	Entry	Medium	This parameter is related to the *Add Group/Filter Options to Work List* parameter. It provides the (database) Column for an additional filter option for the *Work List* and *Work Queue* dialog boxes. The six Work List Filter parameters work together to define the specifics of the additional filter to be added to the dialog boxes. If the additional filter option is used, then this *Column* parameter is mandatory. This is the database column in the header table that will be matched against the selected (filter) values when filtering the *Work List / Work Queue*, for example, "PROJECT".  This feature is NOT available for the "Custom" implementation of MCM Work Queue.	*Yes*
Work List Filter Source Table	Entry	Medium	This parameter is related to the *Add Group/Filter Options to Work List* parameter. It provides the (database) Source Table for an additional filter option for the *Work List* and *Work Queue* dialog boxes. The six Work List Filter parameters work together to define the specifics of the additional filter to be added to the dialog boxes. If the additional filter option is used, then this *Source Table* parameter is mandatory. This is the database table that that contains the available values for filtering the *Work List / Work Queue,* for example, "MCM_VALID_PROJECT".  This feature is NOT available for the "Custom" implementation of MCM Work Queue.	*Yes*

Parameter	Valid Values	Criticality	Description	Doc Level
Work List Filter Source Column	Entry	Medium	This parameter is related to the *Add Group/Filter Options to Work List* parameter. It provides the (database) Source Column for an additional filter option for the *Work List* and *Work Queue* dialog boxes. The six Work List Filter parameters work together to define the specifics of the additional filter to be added to the dialog boxes. If the additional filter option is used, then this *Source Column* parameter is mandatory. This is the specific column in the database table that contains the available values for filtering the Work List / Work Queue, for example, "PROJECT". This feature is NOT available for the "Custom" implementation of MCM Work Queue.	*Yes*
Work List Filter Active/Inactive Column	Entry	Medium	This parameter is related to the *Add Group/Filter Options to Work List* parameter. It provides the (database) Active/Inactive (flag) Column for an additional filter option for the *Work List* and *Work Queue* dialog boxes. The six Work List Filter parameters work together to define the specifics of the additional filter to be added to the dialog boxes. If the additional filter option is used, then this *Active/Inactive Column* parameter is optional. The values in this column MUST be either A or I. Example value: "ACTIVE_INACTIVE" This feature is NOT available for the "Custom" implementation of MCM Work Queue.	*Yes*

Parameter	Valid Values	Criticality	Description	Doc Level
Work List Filter Source Where Clause	Entry	Medium	This parameter is related to the *Add Group/Filter Options to Work List* parameter. It provides the (database) Valid Value Where Clause for an additional filter option for the *Work List* and *Work Queue* dialog boxes. The six Work List Filter parameters work together to define the specifics of the additional filter to be added to the dialog boxes. If the additional filter option is used, then this *Valid Value Where Clause* parameter is optional. The values in this column MUST be either A or I. Example value: "ACTIVE_INACTIVE" This feature is NOT available for the "Custom" implementation of MCM Work Queue.	*Yes*
Prevent completion with in-work phantoms	*Yes* or *No*	Medium	This parameter indicates whether or not a plan can be stored complete if there are phantom component parts that are not released or complete.	NA

3.3.2.7 Globalization Configuration Parameters

See Globalization Configuration Parameters on 20.

3.3.2.8 Redline Configuration Parameters

The *Redline* configuration parameters control such settings as when redlines are deleted and how they are done.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CAPP* menu. In the *CAPP Parameters* dialog box, click the *Redline Parameters* bar.

Certain of these parameters have a *Doc Level* check box. Selecting this check box allows the parameter to be set at the document level rather than globally. This means different documents can have different settings, e.g., whether or not plan redlining is automatically deleted when a plan is saved complete. See Editing Document-Level Configuration Parameters on page 35 for more details on how to work with these types of parameters once they are activated.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description	Doc Level
Delete All Redlines When Plan Complete	*Yes* or *No*	Medium	This parameter indicates whether or not all redlines on a plan should be deleted automatically when a plan is stored complete.	*Yes*
Redline Using Snapshot Selection mode	*Yes* or *No*	High	This parameter indicates whether or not the snap shot mode of redline is being used (which can be defined in *Document Format Maintenance*), the user should be allowed to select the screen image to redline. If this is option is not used, then an image of the current active window will be grabbed automatically.	*Yes*
Exit Redlines After Save Function	*Yes* or *No*	Low	This parameter indicates whether or not redline mode should be exited when the user clicks the *Save* button.	*Yes*

3.3.2.9 User Notification Configuration Parameters

The *User Notification* configuration parameters control such settings as whether or not user notification is activated, what causes the *User Notification* dialog box to display, and how often the system checks for new notifications.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CAPP* menu. In the *CAPP Parameters* dialog box, click the *User Notification Parameters* bar.

Certain of these parameters have a *Doc Level* check box. Selecting this check box allows the parameter to be set at the document level rather than globally. This means different documents can have different settings, e.g., how group notification is handled for signoffs. See Editing Document-Level Configuration Parameters on page 35 for more details on how to work with these types of parameters once they are activated.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description	Doc Level
User Notification Activated	*Yes* or *No*	Medium	This parameter indicates whether or not the system should add a message to the USER_NOTIFICATION table anytime new work has been added to a user's *Work Queue.* This assumes that the electronic signoff option is being used. When logging into the application, the system will check the USER_NOTIFICATION table to see if any message are there. This will occur even if	*Yes*

Parameter	Valid Values	Criticality	Description	Doc Level
			the parameter is set to *No*. This allows you to use the USER_NOTIFICATION table to add messages other than new work being added to a queue. There is also a *Check Notifications* menu item on the *Utilities* menu to display any messages in the table. In addition, an event can be set up to periodically post the *User Notification* dialog box. This event can be configured to only display the dialog box if new items have appeared on the list. If the *User Notify Method* parameter is set to "new," the event driven process will only display the message list if new messages have arrived since the last display (within the current session). If *User Notify Method* is NULL or any other value, then the list will always display as long as a least one entry is found. The *User Notify Time* parameter indicates the number of minutes between checks for messages, which is configurable during the session. If a user manually reviews the list, the interval starts over. A value of "0" means that you do not want a time interval defined. In that case, the only way to view the messages is to use the menu option.  If you wish to add your own messages to the user notification table, you can use the following proc: `::hmsCapp::InsertUserNotification _userId _message`	
User Notify Method	Entry; default is new	Low	This parameter indicates what should cause the *User Notification* dialog box to display for a user. If the value is set to "new," then it displays only if "new" messages have arrived since the last time the dialog box was displayed to the user.  This does not affect the initial display of the *User Notification* dialog box on startup of the system.	*Yes*

Parameter	Valid Values	Criticality	Description	Doc Level
User Notify Time	Number of minutes	Low	This parameter indicates the number of minutes to wait between checks for new notification messages for a user logged into the CAMS application.	*Yes*
Notify Group When No User Specified	*Yes* or *No*	Low	This parameter indicates whether or not all CAMS users in the specified group will be notified when a plan's signoff cycle contains an assignment for a group that does not indicate a specific user name.	*Yes*
Notify Group Lead Only	*Yes* or *No*	Low	This parameter indicates whether or not when group level notifications are sent by signoff, only the group lead user(s) should be notified, instead of all the users assigned to the group.	*Yes*
Notify Groups With Single Message	*Yes* or *No*	Low	This parameter indicates whether or not a notification targeted for a group will result in only a single row for the group inserted into the USER_NOTIFICATION table, instead of one row for each user in the group.	*Yes*
Email Subject Heading	Entry; default is CAMS Message	Low	This parameter indicates the Subject that should be used for all e-mail notifications sent by the signoff function.	*Yes*

3.3.2.10 Summary Screen Configuration Parameters

The *Summary Screen* configuration parameters govern the *Summary* area of documents. They control how operations are added to this area, whether or not the system automatically stores changes to this area, if users can concurrently edit the *Summary* area if concurrent editing of the document type is allowed, and more.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CAPP* menu. In the *CAPP Parameters* dialog box, click the *Summary Screen Parameters* bar.

Certain of these parameters have a *Doc Level* check box. Selecting this check box allows the parameter to be set at the document level rather than globally. This means different documents can have different settings, e.g., how operations are added to the summary. See Editing Document-Level Configuration Parameters on page 35 for more details on how to work with these types of parameters once they are activated.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description	Doc Level
Add Operation To Summary	*Yes* or *No*	Medium	This parameter indicates whether or not the Add Operation function from the summary should open up a line on the summary itself. Otherwise, the user will need to select a detail sheet and finish the add from that sheet.	Yes
Auto Store Summary Changes	*Yes* or *No*	Medium	This parameter indicates whether or not the system will automatically attempt to store any summary changes. If *Auto Store Summary Changes* is *No*, the system will prompt that the summary has been changed and ask if the user wants to store. This happens when buttons in the Summary function panel are clicked, such as *View Oper, Edit Oper,* etc.	Yes
Concurrent Summary Edit Allowed	*Yes* or *No*	High	This parameter indicates whether or not the system will allow concurrent editing on the summary if concurrent editing is set up for the document. It also requires that there is at least one subdocument that uses the summary (DB) table as the lock table.	Yes
Add Operation While Not in Plan Signoff	*Yes* or *No*	Medium	This parameter indicates, if set to *Yes* and the summary level signoff is active, whether a user can add operations without being in the signoff cycle for the header level. This is only applicable when the CAMS document is set up to allow concurrent editing.	Yes

3.3.2.11 Subdocument Sheet Configuration Parameters

The *Subdocument Sheet* configuration parameters govern subdocuments. They control how whether or not the system prompts for the detail sheet to use when adding new operations, whether or not the system automatically stores changes to subdocuments, and more.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CAPP* menu. In the *CAPP Parameters* dialog box, click the *Subdocument Sheet Parameters* bar.

Certain of these parameters have a *Doc Level* check box. Selecting this check box allows the parameter to be set at the document level rather than globally. This means different documents can have different settings, e.g., whether or not changes are automatically stored when user exists the subdocument. See Editing Document-Level Configuration Parameters on page 35 for more details on how to work with these types of parameters once they are activated.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description	Doc Level
Select Sheet on Add New Operation	*Yes* or *No*	Medium	This parameter indicates whether or not the system will always prompt for the detail sheet to use when adding a new operation to a CAMS plan. If this is set to *No*, the system will assume the user wants to add from the current sheet the user is on, assuming its main table is the summary table.	Yes
Auto Store Subdocument Changes	*Yes* or *No*	Medium	This parameter indicates whether or not the system will automatically attempt to store any subdocument changes when the user leaves the subdocument sheet. If *Auto Store Subdocument Changes* is *No*, the system will prompt that the subdocument has been changed and ask if the user wants to store.	Yes
View Empty Subdocument	*Yes* or *No*	Medium	This parameter indicates whether or not the system will display a step subdocument in view mode, even if there are no steps to display. In some cases, the subdocument header area contains data that may be summary level (but not contained in the summary widget), not step level. Without this option, there is no way to view such data unless steps exist. The default is *Yes*, so the system will continue to work normally (no display in view mode) unless the value is changed to *No*.	Yes

3.3.2.12 Step/Page Configuration Parameters

The *Step/Page* configuration parameters govern steps and pages within plans. They control how the system moves through operations and steps, the default increment number when adding steps, and more.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CAPP* menu. In the *CAPP Parameters* dialog box, click the *Step/Page Parameters* bar.

Certain of these parameters have a *Doc Level* check box. Selecting this check box allows the parameter to be set at the document level rather than globally. This means different documents can have different settings, e.g., how the system pages through steps and operations. See Editing Document-Level Configuration Parameters on page 35 for more details on how to work with these types of parameters once they are activated.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description	Doc Level
Page Thru Steps and Operations	*Yes* or *No*	Low	This parameter indicates whether or not when the user clicks the *Next Page* button and the user is on the last page of the operation or step, the system should go to the first page of the next operation or step. Likewise, if the user clicks the *Prev Page* button and the user is on the first page of an operation or step, it determines whether or not the system will go to last page of the previous operation or step.	Yes
Go To First Page Automatically	*Yes* or *No*	Low	This parameter indicates that when an operation or step is selected, the system does not present the page summary panel. Instead, it goes to the first page automatically, if any pages exist.	Yes
Print Absolute Page Numbers	*Yes* or *No*	Low	This parameter indicates whether or not during printing, the absolute page number should be printed as opposed to the relative page number within the operation or subheader sheet.	Yes
Default Step Increment Number	Whole number, no leading zeros	Medium	This parameter is only valid for a numeric step and defines the increment to use when adding a new step in a step type subdocument. If the document has multiple step type subdocuments and you need different default increments, then set `::hmsCappConfig::defaultStepIncrement` in the `::hmsCappEvents::PostSelectSubdocSheet` event macro. If something more elaborate is required, you can use the `::hmsCappEvents::PreGetNewStep` event.	Yes

Parameter	Valid Values	Criticality	Description	Doc Level
Select Mode for Page Summary Window	*single element selection* *single element selection – mouse drag allowed* *multiple selections, 1 at a time, no mouse drag* *multiple selections, mouse drag, plus control, shift keys allowed*	Medium	This parameter indicates the select method for the Page Window summary.	Yes

3.3.2.13 User Maintenance/Password Configuration Parameters

See User Maintenance and Passwords Configuration Parameters on page 17.

3.3.2.14 Order Maintenance Configuration Parameters

The *Order Maintenance* configuration parameters govern settings in the Order Maintenance application, such as whether or not the entire order is put on hold once the order is put into Order Maintenance, how changes are pushed out to other orders for the same plan or part, and whether steps can be renumbered.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CAPP* menu. In the *CAPP Parameters* dialog box, click the *Order Maintenance Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Show Retrieve Status Checkbox	*Yes* or *No*	Medium	This parameter indicates whether or not the *Show Status* check box will be displayed on the Order Maintenance retrieval dialog box. Normally it is not to avoid confusion between the OM status and SFM order status.

Parameter	Valid Values	Criticality	Description
Place Entire Order On Hold	*Yes* or *No*	Medium	This parameter indicates whether or not the entire order is to be placed on hold while an order is edited in OM. The default is *No* to allow operations that are not being edited to continue to be worked in SFM.
Display Base Operations	*Yes* or *No*	Medium	This parameter indicates whether or not the system should display base operations in the Summary. This only applies to operations that have steps defined.
Push Changes to Orders – Same Plan Key	*Yes* or *No*	Medium	This parameter indicates whether or not the Push Operation Changes function is limited to orders that have been created from the same plan revision (plan_key). The default is *Yes*. To allow pushing to other orders for the same part number (any revision), set the value to *No*.
Push Changes to Complete Orders	*Yes* or *No*	Medium	This parameter indicates whether or not the Push Operation Changes function can be performed on Complete status orders. Normally an order must be in edit mode to perform the Push Changes function.
Allow Edit of Total Setup/Run Time Field	*Yes* or *No*	Medium	This parameter indicates whether or not TOTAL_RUN and TOTAL_SETUP fields are editable in OM. Normally these are calculated values and are not directly editable. If you want to set this to *Yes*, please note that these fields must be set up to allow editing, i.e., the edit level is not blank.
Propagate Changes to Open Orders	*Yes* or *No*	Medium	This parameter indicates whether or not the system should recreate the shop orders at the time the plan is saved complete. All shop orders having the same part number/CAGE code and a status “Not Started” and a substatus of “Held for Planning” will be updated. Updates consist of re-creating the designated shop orders to incorporate the new planning changes. Orders can be identified as “Held for Planning” by the Order Hold function available through the *Function* menu.
Remove Deleted Operations in Propagate	*Yes* or *No*	Medium	This parameter indicates whether or not when propagating revision changes to started shop orders, if an operation is deleted in the plan, the operation should also be deleted (removed) from the order.

Parameter	Valid Values	Criticality	Description
Allow Renumbering Steps in WIP Orders	*Yes* or *No*	High	This parameter indicates whether or not users are allowed to renumber steps in OM. This will only be possible for order operations that have not (ever) started and have not been skipped.

3.3.2.15 Document Effectivity Configuration Parameters

The *Document Effectivity* configuration parameters control when the system should do overlap checking during effectivity editing, if orders can be held by effectivity range, and more.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CAPP* menu. In the *CAPP Parameters* dialog box, click the *Document Effectivity Parameters* bar.

Certain of these parameters have a *Doc Level* check box. Selecting this check box allows the parameter to be set at the document level rather than globally. This means different documents can have different settings, e.g., whether or not the system should perform the overlap checking during the editing of effectivity data. See Editing Document-Level Configuration Parameters on page 35 for more details on how to work with these types of parameters once they are activated.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description	Doc Level
Validate Overlap After Effectivity Edit	*Yes* or *No*	Medium	This parameter indicates whether or not the system should perform the overlap checking during the editing of effectivity data. If desired, overlaps may still be checked at store time by defining a new set of configuration variables defined below. This parameter ONLY applies to header level effectivity editing. Detail level editing does not test for this variable since it assumes that the core effectivity "selection" validation proc is being used. In that case, the on edit overlap check makes it nearly impossible to have multiple effectivity ranges for the same model in the detail effectivity table. SO: If you desire to have overlap checks made on detail effectivity, you will need to use the `effOverlapCheck` array approach described below.	Yes

Parameter	Valid Values	Criticality	Description	Doc Level

			effOverlapCheck
			This array will contain two values for any effectivity tables that need to be checked for overlapping ranges:
			`::hmsCappConfig::effOverlapCheck($docName,$tableName,title)`
			`::hmsCappConfig::effOverlapCheck($docName,$tableName,matchColumns)`
			Where the `"title"` is a short title such as (PLAN, OPER, PARTS, TOOLS, SPECS, etc.) that will be displayed as part of the title of a window that lists any overlapping effectivity ranges, and `"matchColumns"` is a list of the non-effectivity field column names (uppercase), that must match exactly when considering whether or not similar effectivity ranges overlap. The list may be empty for a table that contains only effectivity fields (operation effectivity).
			An example might be "PART_NUMBER QUANTITY", which would indicate that multiple lines that that have the same PART_NUMBER can overlap as long as they have different QUANTITY values. However, if overlapping ranges are found with both PART_NUMBER and QUANTITY equal, then there is a problem (remember, this is just an example).
			This does not include effectivity that may be defined as part of a standard text table widget.	

Hold Orders by Effectivity Ranges	*Yes* or *No*	Medium	This parameter indicates whether or not users should be allowed to place holds on orders by specifying ranges of unit effectivity. If set to *Yes*, the system will configure the *Hold Orders* dialog box to display widgets for entering effectivity range criteria.	Yes
Expand Eff Ranges During Blow Down	*Yes* or *No*	Medium	This parameter indicates whether or not effectivity ranges will be increased when appropriate during the Blow Down function.	Yes

Parameter	Valid Values	Criticality	Description	Doc Level
Plan Precedence Used on Filtering	*Yes* or *No*	Medium	This parameter indicates whether or not the user should be able to apply an alternate "used_on" filter when viewing available plans for plan precedence. A prerequisite is that the document should be configured for using "Used_on" filters by applying the EFFUSEDON xml tag. Please contact your SAP representative for more details on and assistance with this tag.	Yes

3.3.2.16 Printer Server Configuration Parameters

The *Print Server* configuration parameters govern whether or not server printing is used and when.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CAPP* menu. In the *CAPP Parameters* dialog box, click the *Print Server Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Allow Server Printing	*Yes* or *No*	Medium	This parameter indicates whether or not standard print requests can be written to the CAPP_PRINT_QUEUE table for processing by a server. This requires starting a print server(s) on another machine.
Always Use Server Printing	*Yes* or *No*	Medium	This parameter indicates whether or not only the Server Print option should be allowed for the standard print request.
Server Print Type	Entry	Medium	This parameter indicates a print type to tag all server print requests with. This would be used to limit a specific server to specific print types. You can set the print type to anything you want and CAMS will insert all requests as that type. Then you can use the `-printype` option on `RunCAMSCappPrintServer.bat` routine to indicate that the server should only process those requests. You could use this to divert certain users' print jobs to certain print servers or different application print jobs to different servers.

3.3.2.17 Operation Browser Configuration Parameters

The *Operation Browser* configuration parameters govern such settings as the width, height, and colors of the *Operation Browser* window,

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CAPP* menu. In the *CAPP Parameters* dialog box, click the *Operation Browser Parameters* bar.

Certain of these parameters have a *Doc Level* check box. Selecting this check box allows the parameter to be set at the document level rather than globally. This means different documents can have different settings, e.g., the width of the *Operation Browser* window. See Editing Document-Level Configuration Parameters on page 35 for more details on how to work with these types of parameters once they are activated.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description	Doc Level
Width of Operation Browser Window	Number; default is 895	Medium	This parameter indicates the screen width (in pixels) of the *Operation Browser* window.	Yes
Height of Operation Browser Window	Number; default is 700	Medium	This parameter indicates the screen height (in pixels) of the *Operation Browser* window.	Yes
Operation Summary Title Foreground Color	Color selection via *Color* dialog box	Low	This parameter indicates the foreground (text) color for the Operation Summary title bar in the browser window.	Yes
Operation Summary Title Background Color	Color selection via *Color* dialog box	Low	This parameter indicates the background (text) color for the Operation Summary title bar in the browser window.	Yes
Operation Text Widget Names	Entry	Medium	This parameter contains a list of the text widgets that should be displayed in the browser. Each element in the list should contain the following pieces of data: 1. The subdocument sheet (not subdocument name) that contains the widget. 2. The tail portion of the widget name. 3. Title to display on the button on the browser. 4. Optional 0/1 to indicate Auto Display. Auto Display will cause the	Yes

Parameter	Valid Values	Criticality	Description	Doc Level
			data to be displayed instead of a button. Defaults to 0. For example: "fabOperationDetail operDesc {Detail Text} 1" "fabQuality qCharacteristic {Quality Text}"	
Operation Graphic Widget Names	Entry	Medium	This parameter contains a list of the graphic widgets that should be displayed in the browser. Each element in the list should contain the following pieces of data: 1. The subdocument sheet (not subdocument name) that contains the widget. 2. The tail portion of the widget name. 3. Title to display on the button on the browser. 4. Optional 0/1 to indicate Auto Display. Auto Display will cause the data to be displayed instead of a button. Defaults to 0. For example: "fabOperationDetail operDesc {Detail Text} 1" "fabQuality qCharacteristic {Quality Text}"	Yes
Operation Multi-Line Table Widget Names	Entry	Medium	This parameter contains a list of the multi-line table widget names that are used within operations that are to be displayed. Each element of the list should contain the following pieces of data: 1. The subdocument sheet (not subdocument name) that contains the table widget. 2. The tail portion of that widget name. 3. Title to display on the button on the browser. 4. Optional 0/1 to indicate Auto Display. Auto Display will cause the data to be displayed instead of a button. Defaults to 0. For example: "fabOperationDetail operParts {Parts} 1"	Yes

Parameter	Valid Values	Criticality	Description	Doc Level
			"fabToolList toolList {Tools} 1"	

3.3.2.18 Miscellaneous Configuration Parameters

The *Miscellaneous* configuration parameters govern such settings as the date format, when the system timeouts, operation precedence types, and more.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *CAPP* menu. In the *CAPP Parameters* dialog box, click the *Miscellaneous Parameters* bar.

Certain of these parameters have a *Doc Level* check box. Selecting this check box allows the parameter to be set at the document level rather than globally. This means different documents can have different settings, e.g., whether or not mandatory fields are highligted. See Editing Document-Level Configuration Parameters on page 35 for more details on how to work with these types of parameters once they are activated.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description	Doc Level
Date Format	Date format, e.g., DD-MON-YYYY	High	This parameter contains the desired format for displaying dates within the CAMS CAPP module.	NA
Auto-Shutdown Timeout in Milliseconds	Number; 0 = no timeout	Low	This parameter indicates the number of milliseconds to allow between button click events before posting a window indicating that a time out has occurred and the system will close down. The user will have 60 seconds to reply to the shutdown. If you do not want a timeout, set the parameter to 0. 1000 milliseconds = 1 second.	NA
Display Window When System Busy	*Yes* or *No*	Low	This parameter indicates whether or not the system should display a window with a message indicating the system is busy when it is busy performing some task. The alternative is no window displayed, but the user will still not be able to perform any tasks during these time periods.	NA

Parameter	Valid Values	Criticality	Description	Doc Level
Highlight Mandatory Fields	*Yes* or *No*	Low	This parameter indicates whether or not mandatory fields should be highlighted in CAMS windows.	Yes
Active Background Color	Color selection via Color dialog box	Low	This parameter indicates what (if any) background color should be used to indicate the current active widget on a window.	Yes
Active Foreground Color	Color selection via Color dialog box	Low	This parameter indicates what (if any) foreground color should be used for the current active widget on a window.	Yes
Skip Header Reload on Edit	*Yes* or *No*	Medium	This parameter indicates whether or not the reload of the header data when the user clicks the *Edit* button should occur. The assumption is that no background edits of the plan could have occurred after the plan was displayed, but before the user clicked the *Edit* button.	Yes
Font List	Valid font names	Medium	This parameter indicates the list of fonts to be presented from a text box. By default all the system fonts will be presented. This can be a problem when working in a multi-platform environment. You can use this parameter to define the fonts that should be presented to the user.	Yes
Allow Tabs within Text Boxes	*Yes* or *No*	Low	This parameter indicates whether or the system should allow normal `TAB` characters within text type boxes. By default, pressing the `TAB` key will move the cursor to the next field on a window.	NA
Suspend Mandatory Check During Edits	*Yes* or *No*	Medium	This parameter indicates whether or not the check for missing mandatory fields should be delayed until completing a plan.  This parameter must be set to *Yes* if standard plans or standard operations are to be used and need to be saved with mandatory fields left blank.	Yes

Parameter	Valid Values	Criticality	Description	Doc Level
OK to Delete Plan with Open Orders	*Yes* or *No*	Medium	This parameter indicates whether or not the system needs to check for open shop orders when deleting a plan. It is possible that bad things could happen if the plan associated with an order gets removed from the system. If you are certain that this will not be a problem in your implementation, it is OK to set the value to *Yes*.	NA
Firm Quantity Types for Part List	Valid part types	High	This parameter indicates the part types that are to be included in the reconciliation of the parts list with the BOM, for example, "VND HSE PRT".	Yes
Operation Precedence Types	*FS, SF, FF, SS*, with the default set to FS	High	This parameter indicates the precedence type values that appear for selection when editing operation precedence.	Yes
Default Operation Precedence Type	One of the Operation Precedence Types	High	This parameter indicates the default precedence type when editing operation precedence. The default type is FS.	Yes
Default Width for Function Panel	Number; default is 117	Medium	This parameter indicates the width of the Function Panel area of the CAPP window.	Yes
Custom Privileges Button Label	Entry	Medium	This parameter indicates the label to place on the *Custom Privileges* button in the *Profile Maintenance* dialog box.	NA
Custom Privileges Button Command	Command; contact your SAP representative for details	Medium	This parameter indicates the name of the command to be executed when the *Custom Privileges* button is clicked on the *Profile Maintenance* dialog box.	Yes
Show Oper Fields Mass Update Select List	*Yes* or *No*	Medium	This parameter indicates whether or not the *Qualified Plans* list in the Advanced Mass Update function should include operation level fields if either 1) an operation level field is being updated; or 2) an operation level field is used as a plan qualifier for the mass update. By default, only header level fields are included in the *Qualified Plans* list.	Yes

Parameter	Valid Values	Criticality	Description	Doc Level
Find/Replace Updatable Text Color	Color selection	Low	This parameter indicates what background color to use during the Find/Replace function to highlight text that matches the search string and is replaceable.	N/A
Find/Replace Standard Text Color	Color selection	Low	This parameter indicates what background color to use during the Find/Replace function to highlight text that matches the search string and is Standard text, and, therefore, not replaceable.	N/A
Find/Replace Exclude Text Color	Color Selection	Low	This parameter indicates what background color to use during the Find/Replace function to highlight text that matches the search string, but the user has decided to exclude (or ignore) and, therefore, is not replaced.	N/A
User Maintenance Custom Button Function	Entry	Medium	This parameter indicates the name of the custom function (if any) and the corresponding title for the button to be added to the *User Maintenance* dialog box. This function, if defined, must be written to accept a single argument, which will be the `userId` of the user data currently being edited in the User Maintenance function. An example is `{{NCM Prog}::Customer::common::EditUserPrograms}`	N/A
Filter: User Groups Maintenance	*Yes* or *No*	Low	This parameter indicates the whether or not a *Filter* button is available in the *User Groups Maintenance* window, which displays after selecting a user in the *User Maintenance* dialog box and clicking the *Group* button.	N/A
Filter: Doc-Profile Signoff Cycles Maint	*Yes* or *No*	Low	This parameter indicates the whether or not a *Filter* button is available in the Document-Profile Signoff Cycles Maintenance window, which displays after clicking the *Signoff Cycles* button on the *Profile–Document Privileges* dialog box.	N/A

Parameter	Valid Values	Criticality	Description	Doc Level
Filter: Signoff Cycles Maintenance	*Yes* or *No*	Low	This parameter indicates the whether or not a *Filter* button is available in the Signoff Cycles Maintenance window, which displays after selecting *Maintenance → Signoff Cycles* menu.	N/A
Filter: Signoff Cycles Select	*Yes* or *No*	Low	This parameter indicates the whether or not a *Filter* button is available in the *Signoff Cycles* window, which displays (depending on configuration) when saving a plan complete for the first time.	N/A

3.4 Print Plans

3.4.1 Overview

Users can print all or selected sections of a plan.

3.4.2 Configuration Details

Printing parameters are set at the document level rather than globally. There are configuration parameters that apply to the entire plan, e.g., the printing types and page orientation. And there are print configuration parameters than can be set at the sheet, widget, and/or category level.

Users with a profile that is assigned *Document Maintenance* and the *Edit Printing Configuration Parameters* privileges can edit these parameters.

To edit the parameters from Document Maintenance:

1. Select *Maintenance → Document*.
2. In the *Document Maintenance Selection* dialog box, select a document type in the *Available Documents* list and click *Edit Document.*
3. The *Document Format Maintenance* dialog box displays. Click the *PRINTING Parameters* button.
4. The *Printing Parameters* dialog box displays. See the table below for descriptions of the Sheet, Widget, and Category drop-down fields and the following sections for the remaining configuration parameters.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Sheet	Varies by document type	NA	This field is used to select the document sheet, e.g., the header/summary or details, for which you want to define the printing parameters. Making a selection here enables the *Sheet-Specific Print Parameters* and disables the other parameters. See Sheet-Specific Print Configuration Parameters on page 110.
Widget	Varies by document type and depends on whether or not you select a sheet in the Sheet field	NA	This field is used to select a widget for which you want to define the printing parameters. If you selected a sheet, making a selection here enables the *Sheet/Widget-Specific Print Parameters* and disables the other parameters. See Sheet/Widget-Specific Print Configuration Parameters on page 114. If you did not select a sheet, making a selection here enables the *Widget-Specific Print Parameters* and disables the other parameters. See Widget-Specific Print Configuration Parameters on page 112.
Category	Varies by document type; not all document types use categories	NA	This field is used to select the category for which you want to define the printing parameters. Making a selection here enables the *Category-Specific Print Parameters* and disables the other parameters. See Category-Specific Print Configuration Parameters on page 116.

3.4.2.1 Print Type Configuration Parameters

The *Print Type* configuration parameters control what print types are available, the print page orientation, and more.

To edit these configuration parameters, open the *Printing Parameters* dialog box as explained on page 101 and then click on the *Print Type Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Names of Available Print Types	*{WYSIWYG} {Browser Type Print}*	Medium	This parameter indicates the names of the print types that are available to the user. By default *WYSIWYG* and *Browser Type Print* are displayed as descriptions, but these can be changed. If WYSIWYG is not desired, it should be removed from the list. If this parameter contains only one value, then all other parameters in this category should also only contain one value. Another way to remove WYSIWYG printing is to set its "enable" value to 0.

Parameter	Valid Values	Criticality	Description
Print Styles	*{Gui} {Continuous}*	Medium	This parameter indicates the style of printing used for the names specified in the previous parameter.
Print Types to Enabled	*1* = enable, *0* = disable	Medium	This parameter indicates if the names/styles contained in the above parameters should or should not be enabled (included on the *Print* dialog box).
Default Print Type	*0* or *1*	Medium	This parameter indicates the default print type (for pre-selection in the *Print* dialog box). This value represents a list counter in Tcl, so 0 means the first value in the list and 1 means the second value in the list.
Print Page Orientation	*{portrait} {landscape}*	Medium	This parameter indicates the print page orientation for the print types specified in the previous parameters.
Print Dialog Enable	*Yes* or *No*	Medium	This parameter indicates whether or not the *Print* dialog box allows the user to select values. Setting this parameter to *No* forces the user to print using the predefined default selections.

3.4.2.2 Print Dialog Window Configuration Parameters

The *Print Dialog Window* configuration parameters control the function of the plan *Print* dialog box. For example, the system can be configured to preselect all the documents and operations for printing and to enable the preview function.

To edit these configuration parameters, open the *Printing Parameters* dialog box as explained on page 101 and then click on the *Print Dialog Window Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Preselect All Documents	*Yes* or *No*	Low	This parameter indicates whether or not all (sub) documents in the list should be pre-selected when the *Print* dialog box displays.
Preselect All Operations	*Yes* or *No*	Low	This parameter indicates whether or not all operations in the list should be pre-selected when the *Print* dialog box displays.
Enable Print Preview	*Yes* or *No*	Low	This parameter indicates whether or not users can select the Preview option when accessing the *Print* function.

Parameter	Valid Values	Criticality	Description
Enable Background Server Printing	*Yes* or *No*	Medium	This parameter indicates whether or not users can select background server printing. This requires that the background print server process has been setup and started.
Enable Local Printing	*Yes* or *No*	Low	This parameter indicates whether or not users can select local printing. This capability must not be set *Yes* for UNIX systems.
Enable Page Selection	*Yes* or *No*	Low	This parameter indicates whether or not the user can specify individual pages or page ranges to print.
Specific Document Enable Flags	Entry; see description for example	Medium	This parameter indicates which of the available (sub) documents contained within a CAPP document are enabled for printing (included in the Document selection list). For example, the Fabrication Plan document in CAMS Preconfigured Implementation (PI) has 9 subdocuments. Add to that the Header, Signoff, and Revision History, and there are 12 "documents" potentially available for printing. Note that the Header, Signoff and Revision History are added at the beginning of the "documents" list. So this parameter is a string of 0s and 1s—1 means include the document in the list, 0 means do not include the document in the list. So in our example, to include all potential documents in the print list, the parameter value would need to be 1 1 1 1 1 1 1 1 1 1 1 1. To exclude the Signoff and Revision History from the document list, the parameter value would need to be 1 0 0 1 1 1 1 1 1 1 1 1.
Document Order	Entry; see description for example	Medium	This parameter indicates the order that the choices appear in the Documents list on the *Print* dialog box. By default, the order is Header, Signoff, and Revision History followed by the defined subdocuments in the order in which they occur in the `::hmsCapp::subdoc` array. In Fabrication Plan example given in the previous parameter description, to move the Signoff and Revision History documents to the end of the list, this parameter would need to be set to 0 3 4 5 6 7 8 9 1 2 (0 represents the header and 3 represents the first defined subdocument).

Parameter	Valid Values	Criticality	Description
Specific Document List	Entry; see description for example	Medium	This parameter indicates the actual list of documents to use for the Documents list on the *Print* dialog box. If set, this parameter overrides the *Specific Document Enable Flags, Document Order,* and *Pre-Selected Documents* parameters. For example, for the CAMS PI Fabrication Plan document, the following might represent a use of this parameter: {{Fab Plan} 1} {{Plan Materials} 0} {{Fab Plan Notes} 0} {{ Fab Plan Parts} 0} {{Fab Detail Sheet} 1} {{Fab Oper Details} 1} {{Fab Oper Graphics} 1} {{Oper Material Record} 1} {{Fab Oper Parts} 1} {{Fab Op Parts Notes} 1}
Pre-Selected Documents	Entry; see description for example	Medium	This parameter indicates the pre-selections for the Document list when the *Print* dialog box displays. For example, for the CAMS PI Fabrication Plan document, the following might represent a use of this parameter: {Fab Plan} {Fab Detail Sheet} {Fab Oper Details} {Fab Oper Graphics} {Fab Oper Parts}

3.4.2.3 Document Level Default Configuration Settings

The *Document Level Default Settings* configuration parameters control such settings as default headers and footers for printed documents, operation header colors and fonts, and step header colors and fonts.

To edit these configuration parameters, open the *Printing Parameters* dialog box as explained on page 101 and then click on the *Document Level Default Settings* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Enable Subdocument Titles	*Yes* or *No*	Medium	This parameter indicates whether or not for each sheet printed the subdocument name should also be printed. If enabled, titles display in a simple rectangle, the background color of which can be configured (see next parameter).
Subdocument Titles Fill Color	Valid HTML color, e.g., #F8F8FF	Low	This parameter indicates the background fill color to use for the Subdocument Title block (see previous parameter).

Parameter	Valid Values	Criticality	Description
Widget Print Order	Entry; see description	Low	This parameter indicates the default order for printing widgets on a page. If specified, the value must be some combination of; text, table, graphic (with spaces between the words).
Default Page Header	Valid proc; contact your SAP representative for details	Medium	This parameter indicates the name of the proc that will be called to create a header for the top of each printed page. If none is specified, CAMS will generate a basic header for each page.
Default Page Footer	Valid proc; contact your SAP representative for details	Medium	This parameter indicates the name of the proc that will be called to create a footer for the bottom of each printed page. If none is specified, CAMS will generate a basic footer for each page.
Operation Header Background Color	Selection via *Color* dialog box	Low	This parameter indicates the background fill color of the Operation Header block.
Operation Header Font	Font, e.g., - family Arial - size 10 - weight bold	Medium	This parameter indicates the default font for the Operation Header block.
Operation Header Proc Name	Valid proc; contact your SAP representative for details	Medium	This parameter indicates a custom procedure is required for the Operation Header block, and this is the name of that custom procedure.
Operation Header GUI Name	Valid GUI name; contact your SAP representative for details	Medium	This parameter indicates that a custom GUI is required for the Operation Header block, and this is the name of that GUI. If specified, this parameter includes the name of a GUI file and the name of the frame that includes the desired Operation Header {filename framename}, where filename is the sheet name created by the GUI.
No Graphic Warning Message	Entry	Low	This parameter indicates that if there is a place for a graphic on a page, but no graphic is identified, the system should print a message in the area reserved for the graphic. This parameter is used to specify the message, for example, "No Graphic Specified"
Print Graphic File Name	*Yes* or *No*	Low	This parameter indicates that if a graphic is printed, whether or not the system should also print the graphic's filename.

Parameter	Valid Values	Criticality	Description
Enable Operation Continues Message	*Yes* or *No*	Medium	This parameter indicates that if an operation spans pages, whether or not the system should print a message indicating the operation continues on the next page.
Operation Continues Message	Entry	Low	This parameter indicates the message that should be printed to indicate that an operation continues on the next page. Requires that the previous parameter be set to *Yes*.
Step Header Background Color	Selection via *Color* dialog box	Low	This parameter indicates the background fill color of the Step Header block.
Step Header Font	Font, e.g., -family Arial -size 10 -weight bold	Medium	This parameter indicates the default font for the Step Header block.
Graphics DPI Setting	Number	Medium	This parameter indicates the default DPI (dots per inch) setting to use when printing vector graphic files. If this is not set, this parameter defaults to the horizontal DPI setting of the selected printer.

3.4.2.4 Signoff Print Configuration Parameters

The *Signoff Print* configuration parameters control how the document signoff table prints.

To edit these configuration parameters, open the *Printing Parameters* dialog box as explained on page 101 and then click on the *Signoff Print Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Signoff Table Font	Font, e.g., -family Arial -size 10 -weight bold	Medium	This parameter indicates the default font for the signoff table.
X (horizontal) Pad (in pixels)	Number	Medium	This parameter indicates the xPad value to use for all cells in the signoff table.
Y (vertical) Pad (in pixels)	Number	Medium	This parameter indicates the yPad value to use for all cells in the signoff table.
Signoff Cell Border (in pixels)	Number	Medium	This parameter indicates the cell border value to use for all cells in the signoff table.

Parameter	Valid Values	Criticality	Description
Fit Signoff Table to Page Width	*Yes* or *No*	Medium	This parameter indicates whether or not the signoff table should be printed so it completely fills, but does not exceed, the page width.

3.4.2.5 Revision History Print Configuration Parameters

The *Revision History Print* configuration parameters control how the revision history table prints.

To edit these configuration parameters, open the *Printing Parameters* dialog box as explained on page 101 and then click on the *Revision History Print Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Revision History Table Font	Font, e.g., -family Arial -size 10 -weight bold	Medium	This parameter indicates the default font for the revision history table.
X (horizontal) Pad (in pixels)	Number	Medium	This parameter indicates the xPad value to use for all cells in the revision history table.
Y (vertical) Pad (in pixels)	Number	Medium	This parameter indicates the yPad value to use for all cells in the revision history table.
Revision History Cell Border (in pixels)	Number	Medium	This parameter indicates the cell border value to use for all cells in the revision history table.
Fit Revision History to Page Width	*Yes* or *No*	Medium	This parameter indicates whether or not the revision history table should be printed so it completely fills, but does not exceed, the page width.
Revision History Column Titles	Valid column titles enclosed in quotes, e.g., “Rev” “User Name”	Medium	The Revision History GUI is not stored in the widget definition table, so this parameter indicates the column titles for the revision history table.
Revision History Column Widths	Number	Medium	The Revision History GUI is not stored in the widget definition table, so this parameter indicates the column widths for the revision history table. Make sure there is a width for each title entered in the previous parameter.

3.4.2.6 Effectivity Print Configuration Parameters

The *Effectivity Print* configuration parameters, which only apply to certain document types, designate whether printing by effectivity is enabled and if so the settings for how the information will print.

To edit these configuration parameters, open the *Printing Parameters* dialog box as explained on page 101 and then click on the *Effectivity Print Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Enable Print By Effectivity	*Yes* or *No*	Medium	This parameter indicates whether or not the printing by effectivity is enabled. If set to *Yes*, the *Print* dialog box will contain fields for entering the desired effectivity range.
Effectivity Print Title	Entry	Medium	This parameter indicates the title for the effectivity block on the *Print* dialog box, for example "Unit-specific Print."
Effectivity Print Tables	Valid table names; contact your SAP representative for details	Medium	This parameter indicates the tables to be filtered by effectivity during the print (if effectivity filter is specified); for example: OPER_DETAIL OPER_PART_LIST
Effectivity Model Label	Entry	Medium	This parameter indicates the label (title) for the *Model* effectivity field for the *Print* dialog box, for example, Model.
Effectivity Model Length	Number	Medium	This parameter indicates the length (in characters) for the *Model* effectivity field for the *Print* dialog box.
Effectivity Model Database Column	Valid column names; contact your SAP representative for details	High	This parameter indicates the name of the database column for the *Model* effectivity field, for example, MODEL.
Effectivity From/Thru Label	Entry	Medium	This parameter indicates the label (title) for the *From/Thru* effectivity fields for the *Print* dialog box, for example, Unit.
Effectivity From / Thru Length	Number	Medium	This parameter indicates the length (in characters) for the *From/Thru* effectivity fields for the *Print* dialog box.
Effectivity From Database Column	Valid column name; contact your SAP representative for details	High	This parameter indicates the name of the database column for the *From* effectivity field, for example, EFF_FROM.

Parameter	Valid Values	Criticality	Description
Effectivity Thru Database Column	Valid column name; contact your SAP representative for details	High	This parameter indicates the name of the database column for the *Thru* effectivity field, for example, EFF_THRU.
Effectivity From Test Type	Entry	Medium	This parameter indicates the query test type for the *From* effectivity field, for example: >=.
Effectivity Thru Test Type	Entry	Medium	This parameter indicates the query test type for the *Thru* effectivity field, for example: <=.
Effectivity From Default (null) Value	Number	Medium	This parameter indicates the default (if left null) for the *From* effectivity field, for example: 0.
Effectivity Thru Default (null) Value	Number	Medium	This parameter indicates the default (if left null) for the *Thru* effectivity field, for example: 9999.

3.4.2.7 Sheet-Specific Print Configuration Parameters

The *Sheet-Specific Print* configuration parameters govern the print settings for the sheet selected in the *Sheet* field. For example, the sheet might be the header and summary sections of the installation plan document type.

These parameters are only enabled if a sheet is selected in the *Sheet* field and the *Widget* and *Category* fields are blank. Also, see Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Sheet Orientation	*Landscape* or *portrait*	Medium	This parameter indicates the print orientation for the specific sheet.
Enable Subdocument Title Print	*Yes* or *No*	Medium	This parameter indicates whether or not a title block containing the name of the subdocument should be printed.
Begin Sheet on New Page	*Yes* or *No*	Low	This parameter indicates whether or not printing of the specified sheet should begin on a new page.
Subdocument Next Page Check	Entry, default is 400	Low	This parameter indicates that the system should check before beginning the print of a new subdocument to see if it will fit entirely on the current page. If not, then begin the new subdocument on the next page.

Parameter	Valid Values	Criticality	Description
Sheet Continuation Message	Entry; see description for example	Low	This parameter indicates the continuation message that should be printed at the bottom of any page for this sheet that overruns the current page. For example: {Oper Detail continues on next page}.
End of Sheet Message	Entry; see description for example	Low	This parameter indicates the message that should be printed at the end of any sheet. For example: {End of Oper Detail}.
Sheet Widget Order	Entry; see description for example	Low	This parameter indicates the order in which different types of widgets should be printed for the specified sheet. By default, they will be printed in the order {text graphic table}, unless the order has been specified differently in the *Document Level Widget Order* parameter. This parameter would override the *Document Level* setting. For example: {table text graphic}.
Text Widget Order	Entry; see description for example	Low	This parameter indicates the specific order in which multiple text widgets contained in the same sheet should be printed. This only applies to those sheets that contain multiple text widgets. By default, they are printed in the order in which they are specified in the document structure arrays. For example: {txtOperDesc txtOperNotes}.
Graphic Widget Order	Entry; see description for example	Low	This parameter indicates the specific order in which multiple graphic widgets contained in the same sheet should be printed. This only applies to those sheets that contain multiple graphic widgets. By default, they are printed in the order in which they are specified in the document structure arrays. For example: { operGraphic1 operGraphic2 operGraphic3}.
Table Widget Order	Entry; see description for example	Low	This parameter indicates the specific order in which multiple table widgets contained in the same sheet should be printed. This only applies to those sheets that contain multiple table widgets. By default, they are printed in the order in which they are specified in the document structure arrays. For example: {tblTools tblSpecs tblDocuments}.

Parameter	Valid Values	Criticality	Description
Enable Entry Fields	*Yes* or *No*	Medium	This parameter provides control over whether or not entry fields are included in an HTML print. Default is *Yes*. If this parameter is set to *No*, then no entry fields will be included in the HTML print. If this parameter is *Yes*, individual entry fields can be prevented from printing by setting the *Sheet Entry Widget Enable* parameter for specific entry widgets. This parameter only applies to HTML prints.
Pre-Print Sheet GUI	Entry; see description for example	Medium	This parameter provides the name of the GUI file and the frame name within the GUI that contains the header information to print for any header or subdocument sheet print. All of the desired fields and data to print for the header of the specific sheet MUST be included within the specified frame name in the GUI file indicated. EXAMPLE: [list fabPrintHeader frmHeader]

3.4.2.8 Widget-Specific Print Configuration Parameters

The *Widget-Specific Print* configuration parameters govern the print settings for the widget selected in the *Widget* field. For example, the widget might be the *Operation Parts List* in the installation plan document type.

These parameters are only enabled if a widget is selected in the Widget field and the Sheet and Category fields are blank. Also, see Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Table Widget Font	Font, e.g., -{-family Arial -size 8 -weight normal}	Medium	This parameter indicates the font to use when the specified table widget is printed. By default, the font specified for the table widget in the GUI will be used when printing.
Table Widget Title Row Background Color	Selection via *Color* dialog box	Medium	This parameter indicates the title background color to use when the specified table widget is printed. By default, the background color is a very light green (#F0FFF0).
Table Widget Title	Entry	Medium	This parameter indicates the title (if any) to print before the specified table widget is printed. By default, no title is printed for a table widget.

Parameter	Valid Values	Criticality	Description
Fit Table to Page Width	*Yes* or *No*	Medium	This parameter indicates whether the table should be expanded or compressed as necessary to completely fill up the entire width of the printed page. The default is to print the table widget using the column widths specified in the GUI file.
Table Widget Cell Border	Number	Medium	This parameter indicates the size of the border (in 1/1000 inch) to use when creating tables cells. The default is 25.
Table Widget X Padding	Number	Medium	This parameter indicates the X (horizontal) padding (in 1/1000 inch) to use when creating table cells. The default is 100.
Table Widget Y Padding	Number	Medium	This parameter indicates the Y (vertical) padding (in 1/1000 inch) to use when creating table cells. The default is 40.
Table Widget Column Titles	Entry	Medium	This parameter indicates the column titles to print when printing a table widget. By default, the titles defined in the GUI file are used.  The number of titles specified in the list MUST exactly match the number of columns contained in the table widget.
Table Widget Column Widths	Numbers	Medium	This parameter indicates the column widths (in characters) to use when printing a table widget. By default, the widths defined in the GU file are used.  The number of widths specified in the list MUST exactly match the number of columns contained in the table widget.
Table Widget Visible Columns	Number	Medium	This parameter indicates the specific columns that should be included when printing a table widget. By default, all columns defined in the GUI file are printed. This list contains a set of flags indicating if each column is to be included (1) or not included (0).  The number of indicators specified in the list MUST exactly match the number of columns contained in the table widget.

Parameter	Valid Values	Criticality	Description
Graphic Widget Enable Flag	*Yes* or *No*	Medium	This parameter indicates that a graphic widget should be included in the print. This will occur without setting this parameter. If you want a graphic widget to be excluded from the print, then this parameter should be set to *No*.
Graphic Width	Number	Medium	This parameter indicates the desired width of a graphic widget. This value is entered in number of 1/1000 inch. By default, the graphic will be printed the entire printable width of the printed page minus 0.1 inch.
Graphic Height	Number	Medium	This parameter indicates the desired height of a graphic widget. This value is entered in number of 1/1000 inch. By default, the graphic will be printed the 4 inches high.
Graphic Y Padding	Number	Medium	This parameter indicates the desired Y (vertical) padding of a graphic widget. This value is entered in number of 1/1000 inch. By default, the graphic pad Y value is 50.
Graphic X Padding	Number	Medium	This parameter indicates the desired X (horizontal) padding of a graphic widget. This value is entered in number of 1/1000 inch. By default, the graphic pad X value is 50.

3.4.2.9 Sheet/Widget-Specific Print Configuration Parameters

The *Sheet/Widget-Specific Print* configuration parameters govern the print settings for the selected widget on the sheet selected in the *Sheet* field. For example, the sheet might be the header and summary sections of the installation plan document type and the widget the *Site Code* field.

These parameters are only enabled if a sheet and widget are selected in the Sheet and Widget fields and the Category field is blank. Also, see Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Enabled Widget Print	*Yes* or *No*	Medium	This parameter indicates whether or not the specific widget should be included in the print. By default, all widgets are included in the print. This parameter can be used to exclude certain widgets from the print. To do this, select the widget and set this parameter to *No*.
Text Widget Font	Font, e.g., -{-family Arial -size 12 -weight normal}	Medium	This parameter indicates the font to use when the specified text widget is printed. By default, the font specified for the text widget in the GUI will be used when printing. This parameter only applies to text type widgets.

Parameter	Valid Values	Criticality	Description
HTML – Table Widget Title	Entry	Medium	This parameter indicates the title (if any) that should be used when the specified text widget is printed, for example {Operation Tools}. This parameter only applies to Table widgets and HTML prints.
HTML – Table Widget Column Titles	Entry	Medium	This parameter indicates the column titles which should be used when the specified text widget is printed. The default is the column titles that are specified in the GUI file. The number of indicators specified in the list MUST exactly match the number of columns contained in the table widget. This parameter only applies to HTML prints.
HTML – Table Widget Column Widths	Number	Medium	This parameter indicates the column widths which should be used when the specified text widget is printed. The default is the column widths that are specified in the GUI file. The number of indicators specified in the list MUST exactly match the number of columns contained in the table widget. This parameter only applies to HTML prints.
HTML – Table Widget Visible Columns	Number; see description for example	Medium	This parameter indicates the specific columns that should be included when printing a table widget. By default, all columns defined in the GUI file are printed. This list contains a set of flags indicating if each column is to be included (1) or not included (0). The number of indicators specified in the list MUST exactly match the number of columns contained in the table widget, for example: {1 1 0 0 1 1 0 1 1 1 1} This parameter only applies to HTML prints.

3.4.2.10 Category-Specific Print Configuration Parameters

The *Catetory-Specific Print* configuration parameters govern the print settings for the category selected in the *Category* field. These only apply if categories have been defined for the document type.

These parameters are only enabled if a category is selected in the Category field and the Sheet and Widget fields are blank. Also, see Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Category Pre-Step Procedure Name	Proc name; contact your SAP representative for details	Medium	This parameter indicates the name of the procedure to use when printing each new step contained within the specified category.
Category Pre-Step GUI Name	GUI file name; contact your SAP representative for details	Medium	This parameter indicates the name of the GUI to use when printing each new step contained within the specified category. This parameter is specified by indicating the GUI file name and the frame name within the file containing the desired step print information, for example, {stepprintgui prestepframe}
Category Subdocument Order	Entry	Low	This parameter indicates the order in which the subdocuments contained in a category should be printed.
Subdocument Step Order	Entry	Low	This parameter indicates the desired order for printing of step subdocuments, for example, {Disposition Rollup} {Disposition Graphics} {Material Disposition}

3.5 Define First Article Inspection Requirements

3.5.1 Overview

First Article Inspection functionality provides the ability to impose inspection requirements on first run parts in the shop. Once determined that the part measurements fall within the allowed tolerances given for the inspection the requirement is lifted and the additional inspection process will not be imposed on subsequent orders. The First Article requirement may be reimposed in full or part at any time if deemed necessary to validate that the shop processes are producing good parts or when changing vendors for a part.

Implementing First Article Inspection requires implementation steps beyond setting configuration parameters. Refer to the *CAMS Implementation Guide* for instructions.

3.5.2 Configuration Details

To set the FAI configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *FAI* menu. The *FAI Parameters* dialog box displays.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
GDT Font Name	Entry; default is P22 GD&T	High	This parameter indicates the name of the GDT (Geometric Dimensioning & Tolerancing) font. First Article uses Geometric Tolerancing Symbols in its characteristic table to show the type of measurement being described. It will be necessary for each customer to supply their own geometric tolerancing font and make it available to all their client systems. The font used to develop First Article was P22 GD&T. It can be purchased among other places at the following URL: http://www.myfonts.com/fonts/p22/gd-and-t/ If a font is not specified First Article will still function, but with the GDT (symbol) column deactivated.

Parameter	Valid Values	Criticality	Description
First Article Document	Entry	Medium	This parameter indicates the names of the CAPP Documents that will have First Article Requirements attached. Names must be enclosed in brackets, e.g. {Fab Plan} {Instl Plan} {Tool Plan}
Failure Reasons	Entry; reasons provided are *{Reject - Bad Inspection Process} {Reject - Defective Material} {Reject - Out of Tolerance} {Reject - Defective Setup} {Reject - Bad Tool Calibration}*	Medium	This parameter contains the list of selectable reasons for failing a *First Article Inspection Record* in the SFM application. Reasons must be enclosed in brackets as shown.
Pass Reasons	Entry; reasons provided are *{Approve - Clean Inspection} {Approve - With Override Results}*	Medium	This parameter contains the list of selectable reasons for passing a *First Article Inspection Record* in the SFM application. Reasons must be enclosed in brackets as shown.
Incomplete Reasons	Entry; reasons provided are *{Canceled} {Deferred}*	Medium	This parameter contains the list of selectable reasons for setting a *First Article Inspection Record* as Incomplete in the SFM application. Reasons must be enclosed in brackets as shown.
View All Characteristics in SFM	*Yes* or *No*	Low	This parameter indicates whether FAI in the SFM module should display All inspection characteristics defined in the FA Inspection record, or only those characteristics that are targeted to be inspected at the current operation on the SFM Order. (*Yes* = show All, *No* = show only characteristics for the current SFM operation).
Path To FAI Gui Files	Entry	Medium	This parameter indicates the directory path to the location where the FAI gui files are located. Null indicates that non-modified core guis are to be used for FAI.

Parameter	Valid Values	Criticality	Description
Ignore Decimal Formatting Rules	*Yes* or *No*	Medium	This parameter indicates the system should ignore the normal rules for zero padding of user entries to match a length specified in the box definition format. Instead, the system should maintain (store) the exact value the user entered into the field.  This applies to the Target, Min, Max and Result fields in the FAI Characteristic list.
Prompt for Save on Characteristic Browse	*Yes* or *No*	Low	This parameter indicates the system prompt the user if any changes have been made to the currently selected FAI characteristic when a different characteristic is selected.
GDT Font Has Framed Symbols	*Yes* or *No*	Medium	This parameter indicates the GDT symbols (identified in the *GDT Font* parameter) contain frames surrounding the symbols.
Result Fails if Exactly Equals Tolerance	*Yes* or *No*	Low	This parameter indicates the measured Result for a characteristic is deemed to have failed if it exactly equals the Target value +/- the Tolerance.

3.6 Execute Order

3.6.1 Overview

Shop Floor Management executes a company's manufacturing or maintenance processes, as defined in BOMM and CAPP, by managing all of the information required for fabrication, tooling, subassembly, and final assembly. Once the SFM order is complete, the as-built product structure is recorded in BOMM as an As-Built Bill of Material (ABOM).

3.6.2 Configuration Details

The SFM configuration parameters are divided into 25 sections:

- Order Parameters
- Operation Parameters
- Work Queue Parameters
- Shop Calendar Parameters
- Password Parameters
- Archive Parameters
- Shop Display Parameters
- Labor Activities Parameters
- Table Maintenance Parameters
- Work Center Master Default Parameters
- Main Screen Default Parameters
- Serialized Parts Parameters
- Reports Parameters
- Feedback Parameters
- System Information
- Link Order Create
- NCM Integrated
- Project Interface Parameters
- Callboard Parameters
- ABOM Integrated
- Electronic Bar Chart
- Certification Parameters
- First Article Parameters
- ERP Interface
- Time Sensitive Material

3.6.2.1 Order Configuration Parameters

The *Order* configuration parameters govern order functionality, such as whether orders are created in SFM or from and external system, the order number length, what types of orders (if any) can be deleted, and more.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *Order Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Internal Order Release	*Yes* or *No*	High. A change from *No* to *Yes* may require SAP configuration of the order create tool.	This parameter is used to enable (*Yes*) or prevent (*No*) internal order creation. In some situations orders are initiated only by an external system, regardless of user privileges.

Parameter	Valid Values	Criticality	Description
Charge Number Required	*Yes* or *No*	High. A change from *No* to *Yes* may require loading a charge number table and may affect order interfaces	This parameter controls whether a charge number is or is not required to create an order in SFM.
Order Number Length	Any positive number from 1 to 15	High	This parameter specifies the length of the order or job number.
Paper Work Order	*Yes* or *No*	Medium	This parameter controls editing when a paper work order is being used on the shop floor. It turns off edits requiring text entry and other edits that support a paperless work order environment. *Yes*, paper work orders are used, or *No*, electronic orders are used.
External Order Close	*Yes* or *No*	High. A change normally affects the interface between SFM and the ERP system.	This parameter is used to enable or prevent a close order transaction on externally created orders within the SFM system. *Yes*, orders are closed within SFM, or *No*, orders are closed outside of SFM.
Order Closure Flag	*Yes* or *No*	Medium	Assuming that orders are closed within SFM, this parameter determines if the system issues an order close transaction following the completion of the last operation within the order (*Yes*), or if order closure must be initiated manually (*No*).
Reschedule Variance	Any positive number, a space, any positive number, e.g., 3 3	Medium	The first number shows the range of days around the original due date that the order can be rescheduled. For example: if the parameters 3 3 are used, the order due date can be rescheduled up to 3 days prior to the original due date or 3 days after the original due date.
Split Order Prefix	Not editable	High	The value of this parameter is appended to the front of an order number of a child order created as a result of a split order. The prefix is set during system implementation.

Parameter	Valid Values	Criticality	Description
First Article Padding	Any number	Medium	Additional time can be added to the operation scheduling function to compensate for additional time required to perform first article orders; a value of 1.00 adds no additional time; a value of 1.25 adds 25 percent more time for operations within a first article order. If your company has licensed First Article Maintenance, this configuration parameter is deactivated and the padding is not applied to first article order. If a user wants to pad a first article order, the user must reschedule the order to add additional time to it.
Reopen Orders	*Not Allowed, Reopen Order Only*, or *Reopen Order and Complete Quantity Reset*	High. A change normally affects the interface between SFM and the ERP system.	This parameter controls the re-opening of orders that have been closed. *Not Allowed:* Orders cannot be reopened. *Reopen Order Only:* Only reopens the order; does not reset the complete quantity to zero. *Reopen Order and Complete Quantity Reset:* Reopens the order and resets the complete quantity to zero.
Holds Message Display	Any combination of numbers and letters	Low	Text displayed on the *Hold Order* screen in the *Held By* column after processing a Hold Order transaction.
Preferred Operation Identifier	Insert the CAPP alternate operation default value in this parameter to eliminate it from being loaded inadvertently into SFM. Usually set to blank.	High. This value depends on the order create interface and changes affect the interface.	Used by Create Order to validate alternate operations. Insert the CAPP alternate operation default value in this parameter to eliminate it from being loaded inadvertently into SFM. Usually set to blank.

Parameter	Valid Values	Criticality	Description
Split Ord Maint Check	*Warning* or *Error*	Low	*Warning:* If an order is being split that is currently active in Order Maintenance, a warning will display, giving the user the option to proceed or end the transaction. *Error:* If an order is being split that is currently active in Order Maintenance, an error will display and the split will terminate.
Plan Precedence Checks Active	*Yes* or *No*	Medium. Depends on whether plan level precedence is set up in CAPP.	Determines if plan (order) level precedence checks should be done within the Start and Complete Job transactions. This is used if your company is using plan level precedence in CAPP. *Yes* if plan or Job level Precedence is on or *No* if it is inactive.
Allow Delete of Orders	*Yes* or *No*	Medium	Allows or does not allow the deletion of orders.
Allow Delete of Started Orders	*Yes* or *No*	Medium	If the *Allow Delete of Orders* parameter is set to *Yes*, this allows or does not allow the deletion of orders that have a status of "Started."
Allow Delete of Completed Orders	*Yes* or *No*	Medium	If the *Allow Delete of Orders* parameter is set to *Yes*, this allows or does not allow the deletion of orders that have a status of "Completed."
Allow Delete of Scrapped Orders	*Yes* or *No*	Medium	If the *Allow Delete of Orders* parameter is set to *Yes*, this allows or does not allow the deletion of orders that have a status of "Scrapped."
Allow Delete of Traveled Orders	*Yes* or *No*	Medium	If the *Allow Delete of Orders* parameter is set to *Yes*, this allows or does not allow the deletion of orders that have a status of "Traveled." (For traveled to customer only; does not affect in-plant traveled orders.)
Allow Reschedule of Started Orders	*Yes* or *No*	Low	Allows or does not allow the rescheduling of an order that has already been started.
Apply Crew Size to Scheduler	*Yes* or *No*	Medium	The crew size of a work center is or is not factored into the calculation of an order’s schedule.

Parameter	Valid Values	Criticality	Description
Allow Delete of Cancelled Orders	*Yes* or *No*	Medium	If the *Allow Delete of Orders* parameter is set to *Yes*, this allows or does not allow the deletion of orders that have a status of "Cancelled."
Batch Print Program	File path and name	Medium. However, should only be changed by SAP.	The location and name of the file that performs the batch print program. This is set by an SAP representative.
Batch Order Selection Module	Procedure name	Medium. However, should only be changed by SAP.	Identifies the program used for bar coding orders for a batch. This is set by an SAP representative.
Allow Cancel of Traveled Orders	*Yes* or *No*	Medium	Allows or does not allow the cancellation of orders that have an order status of "Traveled."
Allow Split of Closed Orders	*Yes* or *No*	Low	Allows or does not allow an order with a status of "Closed" to be split.
Allow Scrap of Closed Orders	*Yes* or *No*	Low	Allows or does not allow an order with a status of "Closed" to be scrapped.
Exclude Q Step Move/Queue Hrs	*Yes* or *No*	Medium	Determines if Move and Queue Hours are excluded when scheduling order steps.
Continuous Batch Processing	*No Continuous Processing,* *Continuous by Inspection Type,* or *Continuous by Mfg Processing*	Medium	*No Continuous Processing:* Do not allow continuous batch processing. *Continuous by Inspection Type:* Allows inspection operations to continue as a batch. For example, if there are P operations grouped in a batch that are followed by Q inspection operations or C inspection operations, a user can choose to continue those inspection operations as a batch. The system automatically batches the follow on inspection operations so that the user does not have to manually batch them. *Continuous by Mfg Processing:* Allows operations of all inspection types to continue as a batch as long as the following rules are fulfilled: There are follow-on operations; the follow-on operations all have the same work center/work area/location (only if the Enforce Single Work Location for Batch configuration parameter is set to *Yes*); the follow-on operations are all the same

Parameter	Valid Values	Criticality	Description
			inspection type (all P, Q, or C); and the follow-on operations have a status of "Not Started."
Enforce Single Work Location per Batch	*Yes* or *No*	Medium	Only allows a single work location per batch or allows multiple work locations per batch.
Order Recreate Plan Selection Option	*Plan Selection Option Active* or *Plan Selection Option Inactive*	Medium	This parameter determines whether or not prior revisions of plans are valid for re-creating an order.
Batch Re-open Allowed	*Yes* or *No*	Low	If set to *Yes*, allows a user with the appropriate privileges to reopen a closed batch.
Un-start Batch Allowed	*Yes* or *No*	Low	If set to *Yes*, allows a user with the appropriate privileges to undo the start of a batch.
Undo Complete Operation Allowed in a Batch	*Yes* or *No*	Low	If set to *Yes*, allows a user to undo a completed operation in a batch.
Allow Bypassing Qty Check in Split	*Yes* or *No*	Medium	If set to *Yes*, allows a user to override the quantity limit check in an order split.
Split Quantity Usage	*Use Qty Ratio* or *Use Split Qty*	Low	This parameter defines if the split quantity ratio or the use quantity ratio is used to split the operation quantities.
Include Closed Orders in Hold End Item	*Yes* or *No*	Low	This parameter defines whether or not completed orders are included in an end item hold.

3.6.2.2 Operation Configuration Parameters

The *Operation* configuration parameters govern such settings as when serial numbers should be collected, if operations can be closed out of sequence, how rejections are handled, and more.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *Operation Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Operation Stage Quantity	*Stage into first operation, Stage into last operation,* or *Specified Work Center*	Low – Currently use "Stage into first operation"	This parameter is currently not used. *Stage into first operation:* The operation quantity is put into the first operation when staged. *Stage into last operation:* Operation quantity is put into the last operation when staged. *Specified Work Center:* Operation quantity is put into the specified work center when staged.
Bypass Fabrication Order Inspections	*Yes* or *No*	Medium	For fabrication/subassembly and all non-unitized orders, this parameter determines if inspection buyoffs are required before subsequent operations can be started. *Yes*, the system will warn the user that previous inspections have not been completed, but will allow the start operation transaction if the user overrides the warning. *No*, then the system will not allow the operation to start prior to the preceding inspection operations being completed.
Check Serial	*Not Required, Prior to Operation Close,* or *Prior to Order Close*	High. Once CAMS is in production, changes to this parameter could cause serial collection to miss the collection of serial numbers in certain situations on serialized orders that have already started work.	This parameter determines serial number data collection requirements. *Not Required:* Operation component serial numbers are not checked. *Prior to Operation Close:* Operation component serial numbers are checked before the operation is closed. *Prior to Order Close:* Operation component serial numbers are checked before the order is closed.
Quantity Validation	*Do Not Allow complete Qty > Ready Qty.; Allow Complete Qty > Order Qty; No overage allowed, or Allow Complete Qty > Ready Qty only*	Medium	This parameter specifies if complete quantities can be greater than either the ready or order quantity. *Do Not Allow complete Qty > Ready Qty.:* Does not allow the operation complete quantity to be greater than the operation ready quantity. *Allow Complete Qty > Order Qty:* Operation complete quantity can be greater than the order quantity. *No overage allowed:* No operation

Parameter	Valid Values	Criticality	Description
			quantity greater than the ready or order quantity is allowed. *Allow Complete Qty > Ready Qty only:* Operation complete quantity can be greater than the operation ready quantity only.
Sequential Close	*Yes* or *No*	Medium	This parameter controls if operations can be closed out of sequence or not.
Planning Status Change	Not editable	N/A	This parameter is currently not used.
Check Hold Authority	*Optional* or *Required*	Medium	This parameter specifies if the authority code is an optional or required item when placing an operation or an entire order on hold.
Hold Notes	*Yes* or *No*	Medium	This parameter specifies if the *Hold Notes* button is available for inputting hold notes when placing an operation or an entire order on hold.
Steps Sequential Closure	*Yes* or *No*	Medium	Steps must be closed in a sequential order or can be closed in any order.
Display Operation with Steps	*Yes* or *No*	Low	This parameter determines if the operation number is displayed next to the step number or not. It applies to the order *Reschedule* screen and the *Order Status* screen. *Yes*, the operation number repeats for each step. *No*, the operation number is displayed for the parent operation only and not on the step rows, giving an indented list appearance.
Q or C Operations Closures Check	*Yes* or *No*	Medium	This parameter is used to enforce the completion of all prior operations before a Q or C stamp operation can be closed. *Yes*, Q or C operations must have all previous operations completed first. *No*, Q or C operations can be completed independently of previous operations.
Allow Block Start/Complete	*Yes* or *No*	High	When this parameter is set to a *Yes*, a start transaction will automatically be processed by the completion transaction if the user attempts to complete a "Not Started" operation. This along with the Labor Collection parameters allows text entry on non-started operations. If it is set to *No*, the user must start the operation

Parameter	Valid Values	Criticality	Description
			prior to completing the operation. (This does not apply to Q operations.)
Reject Reason Required	*Required, Optional*, or *None*	Medium	Determines if during the operation rejection process, the user will be required to enter a reject reason before being allowed to continue with the transaction.
Undo Reject Reason Required	*Required, Optional,* or *None*	Medium	Determines if during the undo of an operation rejection, the user will be required to enter an undo reject reason before being allowed to continue with the transaction.
Reject to Prior Operation Allowed	*Yes* or *No*	Medium	Indicates whether the reject function is allowed to reject quantities to prior operations or whether the reject is confined to the current selected operation. Applies to Q operations only.
Change Alert Control	*One Time Only Acknowledge-ment* or *Acknowledge-ment by Each Employee Starting Work*	Medium	Directs the change alert function and how acknowledgements are recorded. *One Time Only Acknowledgement:* The change alert must be acknowledged only the first time the order/operation is started. *Acknowledgement by Each Employee Starting Work:* The change alert must be acknowledged each time an employee starts an order/operation.
Bypass Assembly Order Inspections	*Yes* or *No*	Medium	For all unitized orders, this parameter determines if inspection buyoffs are required before subsequent operations can be started. *Yes*, the system will warn the user that previous inspections have not been completed, but will allow the start operation transaction if the user overrides the warning. *No*, then the system will not allow the operation to start prior to preceding inspection operations being completed.
Complete % for Non-Unitized Orders	*% Complete at Operation Level* or *None*	High	Determines how percent complete is collected on non-unitized orders: at the operation level or it is not collected at all.
Complete % for Unitized Orders	*% Complete Order Level, % Complete Operation*	High	Determines how percent complete is collected on unitized orders. *% Complete Order Level:* Percent complete data gathered at the order

Parameter	Valid Values	Criticality	Description
	Level, or *None*		level for unitized orders. *% Complete Operation Level:* Percent complete data gathered at the operation level for unitized orders. *None:* Percent complete functionality is not active for unitized orders.
Q Operation Starts Required	*Yes* or *No*	Medium	This determines whether or not quality has to start the operation before processing any items on that operation.
Collect Labor for Non-Unitized Orders	*Collect Labor at Order Level* or *Collect Labor at Operation Level*	High	Determines how labor is collected on a non-unitized order: at the order level or the operation level.
Collect Labor for Unitized Orders	*Collect Labor at Order Level* or *Collect Labor at Operation Level*	High	Determines how labor is collected on a unitized order: at the order level or the operation level.
Rollback Oper Cmplt if Order Cmplt Fails	*Yes* or *No*	Medium	When completing the last operation, if the *Order Closure Flag* parameters in the *Order Parameters* section is set to *Yes* and this parameter is set to *Yes*, the operation is reset back to started if the order complete fails. If it is set to *No*, operation completion is allowed even if the Order Complete fails.
Bypass Quantity Panel on Assembly Orders	*Yes* or *No*	Medium	Allows for unitized orders with a quantity of 1 to bypass the quantity confirmation panel when completing operations. If multiple orders are selected for completion at one time, the quantity panel will still display since combinations may be of unitized and nonunitized orders.
Standard - # of Pos to Right of Decimal	*2, 3,* or *4*	Medium	This parameter controls the rounding of numbers.
Virtual Quantity Edit Active	*Yes* or *No*	Medium	The virtual quantity validation is used when completing operations for more (or less) than the order quantity. You can opt to use or not use the virtual quantity in the editing of the complete quantity – if you do not, it will use the

Parameter	Valid Values	Criticality	Description
			actual ready and/or order quantity for the validation.
Evaluate Standard Formulas On	*Evaluate on Operation Complete,* *Evaluate on Operation Start,* or *Evaluate on Operation Start/Complete*	Medium	This configuration parameter determines when formulas included in standard text should be evaluated.
Oper Precedence Checks Active	*Yes* or *No*	Medium	This parameter determines if operation level precedence checks should be done within the Start Operation transaction. This is used if the customer is using operation level precedence in CAPP. *Yes* if operation level precedence is on or *No* if it is inactive.
Complete Oper - Undo Stds Collection?	*Yes* or *No*	Medium	This parameter determines whether earned standard collection is or is not undone when a user undoes a completed operation.
Allow Complete Oper with Open Steps	*Yes* or *No*	Medium	If this parameter is set to *Yes*, it allows users to complete operations even if they have open steps.
Use Buy-off Cycles	*Yes* or *No*	Medium; however, should only be changed by SAP	If this parameter is set to *Yes*, buyoff cycles are used for orders. If set to *No*, the standard buyoff functionality is used.
Buy-off entries can be skipped	*Yes* or *No*	Medium	If this parameter is set to *Yes*, buyoffs designated as skippable in the buyoff cycle can be skipped by privileged users. If this is set to *No*, buyoffs cannot be skipped. Users must be assigned the *Buyoff Skip* permission to be able to skip.
Check Certifications Prior to Buy-off	*Yes* or *No*	Medium; however, should only be changed by SAP	If this parameter is set to *Yes*, certifications are done at the buyoff level for any buyoff cycle designated in planning as requiring the certification check. If this is set to *No*, the check is not done at the buyoff level.
Buy-off Group/Sub-group Requirement	*Group Only* or *Group/Sub-SubGroup*	Medium; however, should only be changed by SAP	This field must indicate whether only a group or a group and subgroup are required for buyoff cycles.

Parameter	Valid Values	Criticality	Description
Buy-off Notes Required	*Yes* or *No*	Medium	If this parameter is set to *Yes*, a buyoff comment is required for all types of buyoffs. If this is set to *No*, a buyoff comment is only required for partial and proxy buyoffs.
Skip Operation Check Active	*Yes* or *No*	Medium	If this parameter is set to *Yes*, it checks the operation to see if it can be skipped.
Allow Skip with Buy-offs Attached	*Yes* or *No*	Medium	If this parameter is set to *Yes*, operations with buyoff cycles attached can be skipped. If this is set to *No*, operations with buyoff cycles attached cannot be skipped.
Validate Opers prior close of last Oper	*Yes* or *No*	Low	If this parameter is set to *Yes*, the system validates that there are no open operations prior to the last operation.
Move Steps	*Yes* or *No*	Low	If this parameter is set to *Yes*, steps are added to the *Move* screen.

3.6.2.3 Work Queue Configuration Parameters

The *Work Queue* configuration parameters govern such settings as how the screens display, if the queues automatically refresh after a transaction is done, and more.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *Work Queue Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Sort/Select/Find Default Update	*Yes* or *No*	N/A	This parameter is no longer in use since the ability to change the sort/select/find defaults is now controlled using a Logon permission.
Work Queue Display Format	*Order List* or *Order/Serial Number List*	Medium	This parameter is used to activate the split screen format for the *Work Queue* screen. It is only used if you are tracking part serial numbers through an order on an operation-by-operation basis. If you are not tracking serial numbers at this detail level, then the split screen format is not used. *Order List:* Do not split the screen. *Order/Serial Number List:* Split the screen to display operation serial numbers.

Parameter	Valid Values	Criticality	Description
Assembly Queue Display Format	*Order List* or *Order/Traveled List*	Medium	This parameter is used to activate the split screen format for the Assembly Queue screen. It is only used if you are using the assembly traveled work function. If you are not using the traveled work function then the split screen format is not used. *Order List:* Do not split the screen. *Order/Traveled List:* Split the screen to display traveled orders.
Round Factor	Any number from 1 to 9	Low	This parameter rounds numeric values in the *Work Queue* list to the number of decimal places specified.
Automatic Refresh	*Yes* or *No*	Medium. Set to *No* to minimize network traffic and system response time	If this parameter is set to *Yes*, it will automatically refresh the entire queue after a transaction, such as a start or complete, is finished processing. (Setting this to *Yes* could result in slower response times if the work queues are significantly long.) If this parameter is set to *No*, only a row refresh will occur, and the user must click the *Refresh* button or press *F5* to refresh the entire queue.
Work Assign Added to Personal Q	*Yes* or *No*	High	If this parameter is set to *Yes*, then work assignments are added to the *Personal Queue.*
Limit Work Queue to Non-Assy Centers	*Yes* or *No*	Low	If this parameter is set to *Yes*, then it limits the drop-down *Work Center* field on the *Work Queue* screen to non-assembly work centers only.
Refresh Assembly Queue upon selection	*Yes* or *No*	Medium. Set to *No* to minimize network traffic and system response time	If this parameter is set to *Yes*, it allows the *Assembly Queue* to be automatically refreshed after each new selection is made in the work location and *End Item* drop-downs. (Setting this to *Yes* could impact network traffic and system response times.) If it is set to *No*, the user must manually refresh the *Assembly Queue* by pressing *F5* or clicking the *Refresh* button.
Refresh Work Queue upon selection	*Yes* or *No*	Medium. Set to *No* to minimize network traffic and system response time	If this is set to *Yes*, it allows the *Work Queue* to be automatically refreshed after each new selection is made in the work location drop-down. (Setting this to *Yes* could impact network traffic and

Parameter	Valid Values	Criticality	Description
			system response times.) If it is set to *No*, the user must manually refresh the *Work Queue* by pressing *F5* or clicking the *Refresh* button.
Refresh Order List upon selection	*Yes* or *No*	Medium. Set to *No* to minimize network traffic and system response time	If this is set to *Yes*, it allows the Order List to be automatically refreshed after each new selection is made in any of the drop-down fields in the *Order List* screen. (Setting this to *Yes* could impact network traffic and system response times.) If it is set to *No*, the user must manually refresh the *Order List* by pressing *F5* or clicking the *Refresh* button.
Perform Queue Counts if Required	*Yes* or *No*	Medium. Set to *Yes* to minimize network traffic and system response time	This allows you to turn off the query that does a count check before the display of data in the queues. The count is controlled by the parameter plus the number of possible work centers that can be qualified by the selections made in the *Work Center* drop-down. If the number of possible work centers is greater than 50 then a count is done, otherwise the count is skipped. (Setting this to *No* could impact network traffic and system response times.)
End Item Required for Refresh	*Yes* or *No*	Medium	If this parameter is set to *Yes*, a user must complete the *End Item* field on the *Assembly Dashboard* or *Assembly Queue* prior to refreshing the data.
Include Time with Dates on Queues	*Yes* or *No*	Low	If this parameter is set to *Yes*, the will be appended to the date for all queues.
Working Day Start Time (24 hour clock)	Any number. Defaults to 8	Low	This parameter defines the initial time setting for dates without time specified.

3.6.2.4 Shop Calendar Configuration Parameters

The *Shop Calendar* configuration parameters control the work hours, years, and other *Shop Calendar* settings.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *Shop Calendar Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Default Work Hours	Any number; typically set to 8.0	Low	The value set in this parameter becomes the default value for entering the number of hours on the *Calendar Years* and *Calendar Months* tabs in the *Shop Calendar Setup* dialog box.
Orders Found Prompt	*Yes* or *No*	Low	This parameter determines if the user will be advised that order schedules have been impacted as a result of changes to the shop calendar. *Yes*, the user is notified; *No*, the user is not notified.
Minimum Year	Any year; the recommended setting is 1902	Low	This parameter specifies the earliest year the system will recognize.
Maximum Year	Any future year; the recommended setting is 2037	High. Follow SAP recommendation	This parameter specifies the highest future year the system will allow.
Minimum Bar Count	Any positive number; the recommended setting is 10	Low	This parameter specifies how many updates occur before the progress bar moves.

3.6.2.5 Password Configuration Parameters

The *Password* configuration parameters govern such SFM password settings as the format of passwords, the number of password attempts allowd, what happens upon unsuccessful logon, and more.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *Password Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Password Required	*Yes* or *No*	High	This parameter directs whether or not a password is required to logon to the system.

Parameter	Valid Values	Criticality	Description
			Depending on your system configuration, settings within the configuration parameters may override this parameter.
Visible Logon	*Yes* or *No*	High	This parameter determines whether the user name panel is always visible at logon or is created only when needed. *Yes*, always visible, or *No*, only when the system determines it is needed.
Password Tries	Not editable	Medium	This is set during system implementation. It specifies how many times a user can attempt to enter a user name and password before the system exits or the process is halted.
Group Logon to Order Maintenance	*Yes* or *No*	Medium	This parameter allows access to Order Maintenance from a group logon. *Yes*, allows access, or *No*, does not allow access from a group logon.
Change Password Methodology	*System Default, Automatic User/Logon Update,* or *User Selection*	Medium	This parameter controls how a user's password is changed. *System Default:* Does not sync the User and Logon passwords letting each be set separately. *Automatic User/Logon Update:* Allows user to synchronize the User and Logon passwords to the same password. *User Selection:* Allows the user to select if the passwords are to be synchronized or not.
Unsuccessful Logon Action	*Cancel Logon* or *Disable Account*	Medium	This parameter controls what to do when a user logon is unsuccessful. *Cancel Logon:* When the number of password tries is exceeded, the logon dialog box is cancelled. *Disable Account:* When the number of password tries is exceeded, the account is disabled.
Password Expires in X Days	Any number	Medium	The number of days until a password expires; if this is set to 0 (zero), the password will never expire.
Password Must Contain at Least 1 Letter	*Yes* or *No*	Medium	This parameter controls whether or not the password must contain at least one letter.
Password Must be Mixed Case	*Yes* or *No*	Medium	This parameter controls whether or not the password must include upper- and

Parameter	Valid Values	Criticality	Description
			lowercase letters. This parameter is not editable if the *Password Must Contain at Least 1 Letter* parameter is set to *No*.
Password Must Begin/End with a Letter	*Yes* or *No*	Medium	This parameter controls whether or not the password must begin/end with a letter. This parameter is not editable if the *Password Must Contain at Least 1 Letter* parameter is set to *No*.
Number of Uppercase Characters	Any number	Medium	The number of uppercase letters the password must contain. This parameter is not editable if the *Password Must Contain at Least 1 Letter* parameter is set to *No*.
Number of Lowercase Characters	Any number	Medium	The number of lowercase letters the password must contain. This parameter is not editable if the *Password Must Contain at Least 1 Letter* parameter is set to *No*.
First Char in Password Must be Letter	*Yes* or *No*	Medium	This parameter controls whether or not the first character in a password must be a letter. This parameter is not editable if the *Password Must Contain at Least 1 Letter* parameter is set to *No*.
Last Char in Password Must be Letter	*Yes* or *No*	Medium	This parameter controls whether or not the last character in a password must be a letter. This parameter is not editable if the *Password Must Contain at Least 1 Letter* parameter is set to *No*.
Password Must Contain at Least 1 Integer	*Yes* or *No*	Medium	This parameter controls whether or not the password must contain at least one integer.
Number of Numeric Characters in Password	Any number	Medium	The number of numeric characters the password must contain. This parameter is not editable if the *Password Must Contain at Least 1 integer* parameter is set to *No*.
First Char in Password Must be Number	*Yes* or *No*	Medium	This parameter controls whether or not the first character in a password must be a number. This parameter is not editable if the *Password Must Contain at Least 1 integer* parameter is set to *No*.
Last Char in Password Must be Number	*Yes* or *No*	Medium	This parameter controls whether or not the last character in a password must be a number. This parameter is not editable if the *Password Must Contain at Least 1 integer* parameter is set to *No*.

Parameter	Valid Values	Criticality	Description
Password May Contain Special Characters	*Yes* or *No*	Medium	This parameter controls whether or not the password may have special characters, such as @ or !.
Password Must Contain Special Characters	*Yes* or *No*	Medium	This parameter controls whether or not the password must contain special characters, such as @ or !. This parameter is not editable if the *Password May Contain Special Characters* parameter is set to *No*.
Must Contain Number or Special Chars	*Yes* or *No*	Medium	This parameter controls whether or not the password must contain a number or special characters, such as @ or !. This parameter is not editable if the *Password May Contain Special Characters* parameter is set to *No*.
Number of Special Characters in Password	Any number	Medium	The number of special characters a password can contain. This parameter is not editable if the *Password May Contain Special Characters* parameter is set to *No*.
First Char in Password Must be Special	*Yes* or *No*	Medium	This parameter controls whether or not the first character in a password must be a special character. This parameter is not editable if the *Password May Contain Special Characters* parameter is set to *No*.
Last Char in Password Must be Special	*Yes* or *No*	Medium	This parameter controls whether or not the last character in a password must be a special character. This parameter is not editable if the *Password May Contain Special Characters* parameter is set to *No*.
Password May Contain Spaces	*Yes* or *No*	Medium	This parameter controls whether or not the password may have spaces in it.
Minimum Password Length	Any number	Medium	Enter the minimum length for passwords. Enter 0 for no minimum length required.
Initial Password Expiration	*Yes* or *No*	Medium	This parameter controls whether or not the password expires when a new user is created. If it is set to *Yes*, when the new user logs on, he or she is prompted to create a new password. If it is set to *No*, the password does not expire when a new user is created.
Admin. Changed Password is Expired	*Yes* or *No*	Medium	This parameter controls whether or not the password is set to expired when a system administrator changes an existing user's password. If it is set to *Yes*, when a system administrator creates a new user ID or logon ID, the *Expire Password Now* check box on

Parameter	Valid Values	Criticality	Description
			the *User Information* or *Logon Information* dialog box is selected; however, the system administrator can clear the check box so that the password will not expire.
Password Can be Reused	*Yes* or *No*	Medium	This parameter controls whether or not a password can be reused.
Default Password	Any number/letter/ character combination that meets password rules	Medium	Allows for a default password that can be used for a new user ID or logon ID.

3.6.2.6 Archive Configuration Parameters

The *Archive* configuration parameters govern such archival settings as how and when orders are archived.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *Archive Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Automatic Archive Process	*Yes* or *No*	N/A	This parameter is not currently used. It determines if the process of archiving an order is automatic (*Yes*) based on the number of days an order has a complete status. If it is set to *No*, each order must be archived individually and the number of days is not used.
Days Until Archived	Any number greater than or equal to 1	Medium	This parameter sets the number of days after an order is closed until the order can be moved to on-line archive.
On-Line Archive Log	File path name	High from the point your facility decides to begin on-line archiving of closed orders	This parameter specifies the location of the log file where messages will be written about the results of the on-line archives.
Automatic Off-Line Process	*Yes* or *No*	N/A	This parameter is not currently used. It determines if the process of storing an archived order is automatic (*Yes*) based on the number of days it is in the archives. If

Parameter	Valid Values	Criticality	Description
			it is set to *No*, each archived order must be stored individually and the number of days is not used. (The Transaction Daemon must be set-up to run.)
Days Until Off-Line	Any number greater than or equal to 1	Medium	This parameter specifies the number of days after an order is on-line archived until it can be off-line archived.
Off-Line Archive Log	File path name	High from the point your facility decides to begin on-line archiving of closed orders	This parameter specific the location of the log file where messages will be written about the results of the off-line archives.
Off-Line Description	*Yes* or *No*	Medium	This parameter is used to include or exclude an optional description when performing a manual archive operation. *Yes*, a prompt for a description will be displayed during a manual off-line archive. The optional text entered can describe anything the person performing the archive wants. *No*, a prompt for a description is not displayed.
Off-Line Storage Location	File path name	High from the point your facility decides to begin on-line archiving of closed orders	This parameter defines the path to where off-line files are stored. The files can be moved later via the Off-line Command to another location (e.g., to CD or tape).
Off-Line Store Command	Command	High from the point your facility decides to begin on-line archiving of closed orders	This parameter specifies an optional command to be performed after off-line archive. This provides a hook for integration to other systems that need to be notified when an off-line archive occurs.
Retrieve Archive Log	File path name	High from the point your facility decides to begin on-line archiving of closed orders	This parameter defines the log file that will contain the results of retrieving an off-line archive, including errors encountered.
Off-Line Retrieve Command	Command	High from the point your facility decides to begin on-line archiving of closed orders	Optional user specified command to be performed after an off-line retrieve. This provides a hook for integration to other systems that need to be notified when an off-line archive has been restored to an on-line archive state.

Parameter	Valid Values	Criticality	Description
Allow Printing of Archive	*Yes* or *No*	High	Set during system implementation.
Allow Exporting and Importing of Archive	*Yes* or *No*	High	Set during system implementation.
Allow Editing of Archive	*Yes* or *No*	High	Set during system implementation.
Maximum Rows Returned	Any number greater than or equal to 1	Medium. Can affect response time and network traffic	This parameter specifies the maximum number of rows returned on a search for an archive before an error message is generated. The user must then narrow down the search criteria to reduce the number of rows found.
Allow Archiving of Traveled Orders	*Yes* or *No*	High	This parameter allows a traveled order to be archived. *Yes*, it can be archived, or *No*, it cannot be archived.
Days until Archived Traveled Orders	Any number *greater* than or equal to 1	High	This parameter specifies the number of days after a traveled order is closed before it can be moved to the on line archive.
Mass Update End Item Number	*Yes* or *No*	Medium	This parameter determines whether or not the end item mass update function is active. *Yes*, it is active, or *No*, it is not active.
Archived Screens Background Color	Color; value must be selected from a color pop up	Low	This parameter indicates the background color to use on the archiving screens.
Archiving by Program	*Yes* or *No*	Low	This parameter determines whether or not orders are to be archived by program threshold.
Set Default Archive Status	*On Line, Off Line*, or *Both*	Low	This parameter determines the default archive status.
Refresh Arch Order List Upon Selection	*Yes* or *No*	Low	This parameter determines whether or not the *Archived Order List* screen is refreshed any time a pull-down selection is made.

3.6.2.7 Shop Display Configuration Parameters

The *Shop Display* configuration parameters govern such how the *Shop Display* screen looks and what it contains. They also govern the display and refresh settings for the *Execution Operations* screen.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *Shop Display Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Multi Level Tree	*Yes* or *No*	High	This parameter determines if icons representing attachments to the operation, such as text, part lists, graphics, etc, are to be shown in the shop display tree view. *Yes*: This is the preferred setting. The multi-level tree structure shows all associated data (detail text, parts, tools, etc) below each operation. *No*: Order information only is displayed. All tools, graphics, parts, etc., associated with operations are not graphically shown.
Screen Display Mode	*Static Tree, Static Combo Tree, Browse Tree, Browse Combo Tree,* or *WYSIWYG*	High	This parameter controls the way orders are displayed in the tree view. At this time only the *Static Combo Tree* mode is implemented. With *Static Combo Tree* mode set, only one order folder is shown, but a combo box is shown above the tree view listing other orders numbers that were selected from the *Work Queue*.
Multi Type Tree Folders	*Yes* or *No*	Medium	If this parameter is set to *Yes*, the following is the color coding of orders and operations in the tree: Yellow, not started; green, started; red, on hold; and gray, complete. If this is set to *No*, only one color is used for all folders.
Pre Order Level Text	Any combination of numbers and letters	Medium	Text is displayed in front of the order number on the tree display (to put spaces in text, use the ! character).
Pre Operation Level Text	Any combination of numbers and letters	Medium	Text is displayed in front of the operation number on the tree display (to put spaces in text, use the ! character).
Tree Split Percentage	Any number between 0 and 1.0	Medium	This is the decimal value of the percentage of the screen that is the default width of the tree display on the left side of the screen, for example, 0.21 is 21%.
Icon Directory	File directory location	High	The directory where the icons used in the tree are stored.

Parameter	Valid Values	Criticality	Description
Tree Font Size	Font family name followed by space followed by font point size. Recommended setting is Arial 9.	Medium	The font style and size used to display the text on the left side of the screen.
Initial Rows in Status Table	Any integer	Medium	This parameter defines the number of rows initially displayed in the *Shop Display* status table.
Expand to Rows in Status	Any integer	Medium	This parameter defines how many rows the status table can display when in Expanded Mode.
Hide Shop Tree	*Yes* or *No*	Medium	If this parameter is set to *Yes*, the tree is not visible when a user accesses the *Shop Display*; if it is set to *No*, the tree is visible. Users can click the *Show Tree* or *Hide Tree* button on the *Shop Display* screen to view or hide the tree.
Ords Held for NCM Disp Viewable?	*Yes* or *No*	Medium	This parameter defines whether or not orders that are held for nonconformance disposition are viewable on the *Shop Display* screen.
Enter Data using Popup	*Yes* or *No*	Medium	This parameter allows or does not allow the use of pop-up dialog boxes to enter data from the *Shop Display* screen.
Icon to show all NCRs Closed	Icon name	Low	This parameter is used to display a different color NCR icon (red on white background) when the NCR has been closed.
Auto Enter Data Collection Mode	*Yes* or *No*	Medium	If this parameter is set to *Yes*, as soon as a user enters the *Shop Display* it puts the screen into data collection mode.
Auto-Advance on Oper/Step Completion	*Yes* or *No*	Medium; however, should only be changed by SAP	If this parameter is set to *Yes*, the *Shop Display* automatically advances to the next operation/step on completion of the previous operation/step.
Collapse Operation Upon Completion	*Yes* or *No*	Medium	If this parameter is set to *Yes*, the tree branch is automatically collapsed when an operation is completed or skipped.

Parameter	Valid Values	Criticality	Description
Collapse Step Upon Completion	*Yes* or *No*	Medium	If this is set to *Yes*, the tree branch is automatically collapsed when a step is completed or skipped.
Annotate Folder	*Yes* or *No*	Medium	If this is set to *Yes*, the part number is listed in parentheses following the order folder and the operation or step description is listed in parentheses following the operation or step folder.
Folder Balloon Help	*Yes* or *No*	Medium	If this is set to *Yes*, balloon help listing the part number displays when users hold the mouse over the order folder or the operation or step description displays when they hold it over an operation or step folder.
Apply Shop Notes Affects All Elements	*Yes* or *No*	Medium	If this is set to *Yes*, an operator can select several operations or steps (but not both) and apply a shop note to all of the selected items at once.
Execution Ops Automatic Refresh Active	*Yes* or *No*	Medium; however, should only be changed by SAP	If this is set to *Yes*, the *Execution Operations* windows will automatically refresh at the interval set in the next parameter. If this is set to *No*, the user must manually refresh the window.
Exec. Ops Auto Refresh Interval (Secs)	Any number	Medium; however, should only be changed by SAP	Enter the number of seconds after which the *Execution Operations* window should automatically refresh. This parameter only applies if the previous parameter is set to *Yes*.
Initial Rows in Operation Summary Table	Any number	Medium; however, should only be changed by SAP	Enter the number of rows that should initial display in the *Operation Summary* table in the *Execution Operations* window.
Execution Ops Max Height Text Box	Any number	Medium; however, should only be changed by SAP	Enter the maximum number of rows that will display in the *Execution Operations* text box.
Refresh Upon Demand Only	*Yes* or *No*	Low	This parameter defines whether or not the *Shop Display* tree should be refreshed only upon a user initiated demand.
Execution Ops Number of Steps to Load	*10, 20,* or *30*	Low	This parameter defines the number of steps to load into *Execution Operations* at a time.

Parameter	Valid Values	Criticality	Description
Order TAB Contents	*Part ID only* or *Order ID ~ Part ID*	Low	This parameter designates what is on the *Orders* tab.
Execution Ops Automatic Display Graphics	*Yes* or *No*	Low	Set to *Yes* to automatically refresh the *Execution Operations* window. Set to *No* to force manual refreshing of the *Execution Operations* window.

3.6.2.8 Labor Activities Configuration Parameters

The *Labor Activities* configuration parameters govern the refresh of the *Labor Activities* screen.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *Labor Activities Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Miscellaneous Activities	*Button, Image, Pull-down*	N/A	This parameter is currently not used. Valid values will ultimately be *Button, Image,* or *Pull-down.* The system defaults to *Pull-down.*
Automatic Labor Act. Refresh Active	*Yes* or *No*	Low	If this parameter is set to *Yes,* the *Labor Activities* screen is automatically refreshed. If this parameter is set to *No,* the user must click the *Refresh* button or press F5 to refresh the screen. If this is set to *Yes,* the minutes between refreshes must be set in the *Automatic Refresh Interval (Minutes)* parameter.
Automatic Refresh Interval (Minutes)	Any positive number	Low	The number of minutes between automatic refreshes of the Labor Activities screen, if the Automatic Labor Act. Refresh Active parameter is set to "Yes."

3.6.2.9 Table Maintenance Configuration Parameters

The *Table Maintenance* configuration parameters govern the settings for working with maintenance tables.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *Table Maintenance Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Default Doc. Type	*Documents* or *Procedures*	High	This parameter sets the default type for form definition files, either GUI files created by the Designer utility or TCL procedures files. This parameter is used by SAP implementation staff to define what file type will be used in creating table maintenance forms. These files are stored in the document directory of the system.
Allow Toggling	*Yes* or *No*	Medium	This parameter determines whether the system can toggle between adding documents or procedures. If it is set to *No*, the SAP implementation staff must either add documents or procedures, depending on the default document type setting.
Default Edit Method	*No Prompt, Prompt For Key Values,* or *Full Prompting*	Low	This parameter determines which of the following apply: the user will not be prompted for any values when adding new maintenance tables; the system will prompt user for key values when adding new maintenance tables; or the system will prompt user for all values when adding new maintenance tables. *No Prompt:* The user will not be prompted when adding new maintenance tables. *Prompt For Key Values:* The system will prompt the user for key values when adding new maintenance tables. *Full Prompting:* The system will prompt the user for all values when adding new maintenance tables.
Document Directory	File directory location	High	This is the directory containing the GUI document files.
Autoload Rows	Any positive integer greater than or equal to zero	Medium	This parameter specifies the number of rows the system initially displays.
Maximum Rows to Stop	Any positive integer greater than or equal to zero	Medium	This parameter specifies the maximum number of rows that will be returned by a query.
Maximum Rows to Warning	Any positive integer greater than or equal to zero	Medium	This parameter specifies the maximum number of rows before the system displays a warning asking the user whether to continue or not.

3.6.2.10 Work Center Master Default Configuration Parameters

The *Work Center Master Default* configuration parameters control Work Center settings, such as how completed quantities move to the next operation, move and queue hours, and more.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *Work Center Master Default Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Order Mfg Indicator	*Yes* or *No*	N/A	This parameter is currently not used.
Work Center Paper	*Yes* or *No*	Medium. Note if paper order is being used, the paper document must be defined and programmed for your facility by SAP.	The purpose of this parameter is to allow an incremental transition of work centers from a paper-based system to an electronic form of documentation. Paper-based does not require the entry of data on the order. It assumes that information is entered on the paper document in lieu of the on-line order. In addition, the P or Q stamp authority check is bypassed and any user with the complete operation permission can complete any operation on the order. The assumption is the stamp is being placed on the paper document. *Yes*: This is a paper based work center. *No*: This is a work center that uses SFM to track the orders.
Automatic Moves	*Automatic* or *Manual*	Low	The purpose of this parameter is to specify if the completed quantity is moved automatically to the next operation by the system (Automatic) or if the user, such as a production control person, must instigate the move of quantities to the next operation (Manual).
Default Move Hours	Any positive integer greater than or equal to zero	Low	This parameter specifies the amount of hours spent moving parts between work centers. It is used by the Reschedule program.
Default Queue Hours	Any positive integer greater than or equal to zero	Low	This parameter specifies the hours parts spend in queue between work centers.

Parameter	Valid Values	Criticality	Description
Work Assignment Enforcement	*Enforced, Warning,* or *None*	Low	This parameter specifies the extent to which the system is to enforce work assignments. The system can strictly enforce work assignments, allowing only those assigned to an operation to perform transactions against the task; merely warn the user performing a transaction that the work is assigned to another user; or ignore work assignment in controlling work transactions. *Enforced:* Work assignments are enforced. *Warning:* A warning is issued if the user is not currently assigned to an operation. *None:* Work assignments are not enforced.
Default Separate Times Value	*Yes* or *No*	Medium	This parameter is used to indicate if setup and run times are to be to treated separately by the system or not. *Yes*, separate setup and run times are used, or *No*, separate times are not used.
Apply Move and Queue	*M and Q start of operation, M and Q end of operation,* or *Normal mode*	Medium	This parameter is used to establish move and queue flow of work between operations. It is used by the Scheduling function if SFM is providing the order schedule. It is not used if the schedule is provided by an external system. It is also used by the Rescheduling function. *M and Q start of operation:* The scheduler applies Move Time and Queue Time at the start of the operation. *M and Q end of operation:* The scheduler applies Move Time and Queue Time at the end of the operation. **This is not recommended for use at this time.** *Normal mode:* The scheduler applies Move Time at the end of the operation and Queue Time at the start of the operation.
WC Load Interval Hours	Any number between 6 and 24	Medium; however, should only be changed by SAP	This parameter indicates the interval hours between execution of the background work center load process. It should be an interval of no more than 24 hours.

Parameter	Valid Values	Criticality	Description
WC Load Horizon Days	Any number between 0 and 30	Medium; however, should only be changed by SAP	This parameter indicates the user horizon load days with a maximum of 30 days. For example, 1 means load data from one day beyond today. This value can be set up to 30 days into the horizon.
Move to Ready Qty	*Yes* or *No*	Low	This parameter defines whether or not the move to operation ready quantity is used.

3.6.2.11 Main Screen Default Configuration Parameters

The *Main Screen Default* configuration parameters govern the display of the main SFM screen, such as the company name and logo to display.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *Main Screen Default Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Company Logo Image Name	Set during system implementation	High	Name of the image to display the company logo on the main screen.
Company Name	Set during system implementation	High	Name of the company to display on the main screen.
Display Font	Set during system implementation	High	Font used to display the company name above.
Button Highlight Inverse	*Yes* or *No*	Medium	This parameter specifies how highlighted buttons display in the function panel. *Yes*: Highlighted buttons have light color with dark lettering. *No*: Highlighted buttons have dark color with white lettering.
Maximized Screen	*Yes* or *No*	Medium	This parameter determines if the main screen is or is not maximized when SFM is launched.
Width of Screen	Any number greater than or equal to zero; recommended minimum value is 1000	Medium	This is the width of the display screen in pixels.

Parameter	Valid Values	Criticality	Description
Height of Screen	Any number greater than or equal to zero; recommended minimum value is 700	Medium	This is the height of the display screen in pixels.

3.6.2.12 Serialized Parts Configuration Parameters

The *Serialized Parts* configuration parameters govern such settings as how serial numbers are generated, parent and component serial number validation, if duplicate serial numbers are allowed, and more.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *Serialized Parts Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Parent Validation	*Yes* or *No*	Medium	This parameter specifies if the system is to verify that the parent serial number value has not already been used against the part number in question. *Yes*, enforce validation, or *No*, parent validation is not enforced.
Component Validation	*Yes* or *No*	Medium	This parameter specifies if the system is to confirm if the component serial number has been created previously. If not, the system will respond according to the setting in the *Serial Not Found* parameter just below. The process then verifies that the component serial number input value has not already been used against the component part number in question. *Yes*, enforce validation, or *No*, do not enforce validation.
Serial Not Found	*Warning Message, Fatal Message, Prompt to Add,* or *Add to Database*	Medium	This parameter specifies the system response when a serial number input value has not been found in the system. *Warning Message:* The system displays a warning message that the serial number was not found but adds it to the database. *Fatal Message:* The system display a message explaining that because the serial number was not found, the function

Parameter	Valid Values	Criticality	Description
			attempted cannot be done until a valid serial number is used. *Prompt to Add:* The user is asked if he or she wants to add the serial number to the system database of valid serial numbers. *Add to Database:* The system automatically adds the serial number to the database.
Duplicate Serials Allowed	*Yes* or *No*	Medium	This parameter specifies the system response when a user enters a serial number that has already been used for the part number. It either allows duplicate usage of serial numbers for a particular part number or does not allow it. If this is set to *Yes*, you can define business rules for the duplication in the Table Maintenance parameters. If this is set to *Yes* and the *ABOM Integrated* configuration parameter is changed to *Yes*, the system resets this parameter back to *No*.
Generate Serials Internally	*Yes* or *No*	High	This parameter determines if the system can generate unique serial numbers or if serial numbers are provided from external input (users or another source). This parameter is mutually exclusive of the Generate Serials Externally parameter below. *Yes*, serial numbers are generated internally by the system, or *No*, the user or an external system supplies serial numbers.
Serial Length	Any positive integer less than or equal to 40. The combined length of the serial prefix, serial length, and serial suffix cannot exceed 40 characters.	High	This parameter defines the length of serial numbers accepted by the system. (This parameter is not editable if the *Generate Serials Internally* configuration parameter is set to *No*.)

Parameter	Valid Values	Criticality	Description
Serial Prefix	Any combination of letters. The combined length of the serial prefix, serial length, and serial suffix cannot exceed 40 characters.	High	This parameter defines any character prefix to be appended to the beginning of the serial number. (This parameter is not editable if the *Generate Serials Internally* configuration parameter is set to *No*.)
Serial Suffix	Any combination of letters. The combined length of the serial prefix, serial length, and serial suffix cannot exceed 40 characters.	High	This parameter defines any character suffix to be appended to the end of the serial number. (This parameter is not editable if the *Generate Serials Internally* configuration parameter is set to *No*.)
Left Pad with 0	*Yes* or *No*	High	This parameter specifies if the system is to add zeros to the left of the serial number if the number is less than the length specified in the Serial Length parameter. (This parameter is not editable if the *Generate Serials Internally* configuration parameter is set to *No*.)
Generate Serials Externally	*Yes* or *No*	High	This parameter sets the system to call an event function that returns a serial number from an external system. This parameter is mutually exclusive of the *Generate Serials Internally* parameter above. *Yes*, serial numbers are generated by an external system, or *No*, serial numbers are automatically created by the system or entered by the user.
Record History	*Yes* or *No*	Medium	This parameter determines whether the Serial Genealogy function is keeping track of the history of Remove and Replace transactions. Yes, the system keeps a record of all changes and they are viewable via the History button on the Serial Genealogy dialog box; No, the system keeps only the latest serial number information.
Single Parent Lot per Order	Set during system implementation.	High	This parameter determines if a single lot number is collected for the entire order. It applies only to lot controlled orders; orders with serialization automatically store multiples. *Yes* – Single lot number stored for entire order. *No* – Lot stored for each parent quantity.

Parameter	Valid Values	Criticality	Description
Operation Level Serial Tracking	*Yes* or *No*	High – see description for more details	If this parameter is set to *Yes*, it invokes an additional level of logic for serialization that allows you to track serial numbers within orders on an operation-by-operation basis. Setting this to *Yes* will result in additional recording information required by shop floor personnel involving serialized orders and will require the tracking of serial numbers operation-by-operation through a manufacturing order. Selection of Yes will result in additional recording information required by shop floor personnel involving serialized orders and will require the tracking of serial numbers operation by operation through a manufacturing order. Typically only used in electronics companies. Not recommended for aerospace use.
Multi-Starts Allowed	*Yes* or *No*	Medium	This parameter determines whether or not multiple operation selection and starts are allowed on serial-controlled orders.
Minimize User Directed Selections	*Yes* or *No*	Medium	This parameter is not used if the *Operation Level Serial Tracking* parameter is set to *No*. It controls the posting of the serial selection dialog box if you are tracking serials by operation within an order. If this is set to *Yes*, the system will make many assumptions as to which serials the user is processing and will only post the dialog box if the system is unable to automatically identify the serial numbers affected. *Yes*, the system makes serial selection decisions and minimizes dialog box posting, or *No*, the user direct which serials are involved in the transaction by selecting from a dialog box.
Allow Recording Serial before Oper Start	*Yes* or *No*	Medium	This parameter allows the serial number to be collected before the operation is started, where the part/serial is assigned.
Length of Lot Number	Any positive number less than or equal to 40. The combined length of the lot number prefix, lot number length, and lot number	Medium	This parameter controls the length of the lot number that the system can accept.

Parameter	Valid Values	Criticality	Description
	suffix cannot exceed 40 characters.		
Lot Number Prefix	Any combination of letters. The combined length of the lot number prefix, lot number length, and lot number suffix cannot exceed 40 characters.	High	This parameter defines any character prefix to be appended to the beginning of the lot number.
Lot Number Suffix	Any combination of letters. The combined length of the lot number prefix, lot number length, and lot number suffix cannot exceed 40 characters.	High	This parameter defines any character suffix to be appended to the beginning of the lot number.
Pad Lot Number	*Yes* or *No*	Medium	This parameter specifies if the system is to add zeros to the left of the lot number if it is less than the length specified in the Length of Lot Number parameter.
Major Assembly UID Prompt	*Prompt when each order is closed* or *Prompt when last open order is closed*	Medium; however, should only be changed by SAP	Depending on the setting, the system will check to see if the serial number has been collected in ABOM for the major assembly as each order is closed or when the last open order is closed. If the serial number is collected, then the order closure continues uninterrupted. If the serial number is not collected, then the *Serial Parts* dialog box displays so the user can collect the major assembly serial number only, i.e., no other part numbers will be listed and any auxiliary data requirements are not collected at this time.
Alternate Opers Have Parts List	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter indicates whether or not alternate operations have parts.
Allow display for Next Assm Serial Entry	*Yes* or *No*	Low	This parameter indicates whether or not the next assembly serial number can be collected prior to completing the order.

3.6.2.13 Reports Configuration Parameters

The *Reports* configuration parameters govern such SFM report settings.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *Reports Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Crystal Reports	*Yes* or *No*	Medium	This parameter, when set to *Yes* enables the Crystal Reports functionality to be accessible to users.
Reports Print Server	Any combination of letters and numbers	Medium	This is the name of the report server.
Report Path Home	File path name	Medium	This is the path name to the directory where report files are located.

3.6.2.14 Feedback Configuration Parameters

The *Feedback* configuration parameters control how user will attach images files when using the *Create Feedback* function and whether or not a help dialog box displays.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *Feedback Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Redline Image Mode	*Grab Screen, Use Image File,* or *User Selection*	Low	This parameter specifies how users will attach image files when using the Create Feedback function. *Grab Screen:* Preferred system-supplied screen capture function. *Use Image File:* The user must supply the image file. *User Selection:* Users are asked whether they want to capture the screen or supply an image file.
Show Grab Mode Help	*Yes* or *No*	Low	This parameter specifies if the help panel is or is not displayed when Grab Screen is the redline image mode.

3.6.2.15 System Information Configuration Parameters

The *System Information* configuration parameters govern general system settings, such as date delimiters. the time format, wild cards for searches, the maximum rows that can be retrieved, and more.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *System Information* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Date String Delimiter	Not editable. *Dash* or *Backslash*	Low	This parameter sets the character used to separate day, month and year values within the date format: a dash (-) or a backslash (\ ).
Time Format	*24 Hrs* or 12 Hrs	Low	This parameter specifies the time format used by the system. 24 Hrs, time stamps use the 24 hour time format (for example, 2:24pm displays as 1424), or 12 Hrs, time stamps use the 12 hour time format (e.g., 2:24pm).
Wild Card Character	*%* or *	Low	This parameter defines the wild card character used for queries in the *Work Center, Work Area,* and *Locatio*n fields on the *Work Queue* screen.
Assume Wild Card Character	*Yes* or *No*	Low	This parameter specifies whether or not the wild card character is automatically added to the end of the characters in the *Work Center, Work Area,* and *Locatio*n fields on the *Work Queue* screen for the query.
Show Wild Card Character	*Yes* or *No*	Low	This parameter determines whether or not the chosen wildcard symbol displays on the screen when doing a query.
Max. Retrieval Rows	Any number greater than or equal to 1	Medium	This parameter defines the maximum number of rows retrieved by a query.
Warning Retrieval Rows	Any number greater than or equal to 1	Medium	This parameter defines the number of rows that can be returned in a query prior to warning the user that a significant number of rows will be returned. The user must then decide if he or she wants to continue.
Notification Turned On	*Yes* or *No*	Low	This parameter determines if the Notification System is turned on to support the Traveled Work function. If the Electronic Callboard system is used, this parameter should be set to "*No*."

Parameter	Valid Values	Criticality	Description
Notification Time Interval	Various times	Low	This parameter defines the time interval for automatic display of the *Notification* dialog box. The user can override the time for each logon session.
Notification Methodology	*Display Only New Messages* or *Display at Specified Time Interval*	Low	This parameter determines the methodology to be used for displaying notifications. *Display Only New Messages:* Display the dialog box at the specified time interval only if a new message has entered the list. *Display at Specific Time Interval:* Display the list at the specified time interval regardless of whether a new item has been added. The user can override this for each logon session.
Allow Notification Reply	*Yes* or *No*	N/A	This parameter is currently not used. It allows or does not allow users to reply to notifications.
User ID Case Sensitive	*Yes* or *No*	High	This parameter defines whether or not the user ID is case sensitive. If it is set to *Yes* an upper case ID is considered different than a lower case one consisting of the same letters.
Use a Custom Logon Process	*Yes* or *No*	High	This parameter identifies to the system whether the core or a custom logon process is used during logon and during update transactions using a group logon.
Customer Defined Order Fields Table	File path name	High	This is the name of table that contains the customer-defined order fields.
Customer Defined Oper Fields Table	File path name	High	This is the name of the table that contains the customer-defined operation fields.
Ref. Document Directory	File path name	Medium	This parameter lists the path name to the directory where document files are located that can referenced. A browse dialog box will display so users can select the file, such as a Word, Excel, or PowerPoint file.
Ref. Graphic Directory	File path name	Medium	This parameter lists the path name to the directory where graphic files are located that can be referenced. A browse dialog box will display so users can select the graphic.
Import Graphic Directory	File path name	Medium	This parameter lists the path name to the directory where imported graphic files are located that can be imported into SFM. A browse dialog box will display so users can select the graphic.

Parameter	Valid Values	Criticality	Description
Filter Work Queues by Site Codes	*Yes* or *No*	Medium	If this is set to *Yes* work queues will be filtered by site code. User IDs and logon IDs must then be assigned site codes to limit the orders they can view and work on. Also, a *Site Code* pull-down field will display on queues and other screens. After the initial logon, the *Site Code* field on a queue or screen will display the user ID's or logon ID's default site; however, the user can use the *Site Code* pull-down to select another site to work with if the user ID or logon ID is assigned to multiple sites. If this is set to *No*, work queues are not filtered by site code, user IDs and logon IDs cannot be assigned site codes, and the *Site Code* field will not display on work queues. This configuration parameter also works in conjunction with the *Display Dates in Local Time Zone* configuration parameter just below.
Display Dates in Local Time Zone	*Yes* or *No*	Medium; however, should only be changed by SAP	If you are using multiple languages, this must be set to *Yes.* If this is set to *Yes* any timestamps in work queues will display in the user's local time, which might be different than the database time zone. If this is set to *No*, any timestamps in work queues will not display in the user's local time. Instead, the timestamp captured and displayed will reflect the database's time zone, which might not be the same as that of the user who did the activity. If this configuration parameter and the *Filter Work Queues by Site Codes* parameter are both set to *Yes* the *SFM Logon* dialog box will include a *Time Zone* pull-down field. When the *Logon* dialog box displays, it defaults to *Local;* however, once a user types in a user ID or logon ID and tabs to the Password field, the value in the *Time Zone* field is updated to the time zone for the user ID's or logon ID's default site. However, the user can always use the pull-down to choose another time zone if needed. Finally, time zones need to be set up and maintained in the *Time Zone Selections* table, user IDs must be assigned site codes, and logon IDs must also be assigned site codes.

Parameter	Valid Values	Criticality	Description
Store Document Attachments	*Store as Files, Store as DB Image,* or *Both*	Medium; however, should only be changed by SAP.	This parameter determines how documents attached to orders are stored.
Percentage of Windows Resource Usage	Number between 50 and 80	Low	This parameter defines the percentage of Windows resource usage. It must be a number between 50 and 80 percent.
Labor Start-Finish Mode	Start to Start or Start to Finish	High	This parameter defines the labor collection method.
Use Local Time as Default	*Yes* or *No*	High	This parameter determines whether or not to use the local time as the default. If this is set to *No,* SFM will check that the logon user has a default site assigned and that the site is assigned a default time zone. If these conditions are not met, the user cannot log on to SFM. If this is set to *Yes,* the logon proceeds as usual.

3.6.2.16 Link Order Configuration Create

The *Link Order Create* configuration parameters govern the internal order create process.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *Link Order Create* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Foreground Process	*Foreground, Background,* or *Either*	High	This parameter sets the link order create process to be a foreground process, a background process, or either, in which case the user is asked whether to run the process in the foreground or background.
Automatic Order Numbers	*Yes* or *No*	High	If this parameter is set to *Yes* the system will automatically generate and assign an order number to an internally created order. If the parameter is set to *No*, then the system will require the user to enter an order number when an internal order is created.
Link DB Information	File path name	High	This parameter defines the location of the external database needed for creating linked orders.

Parameter	Valid Values	Criticality	Description
External Database Host	Host machine database ID	High	This parameter defines the server machine name for the external database host.
Allow Order With Duplicate Part/Unit	*Allowed, Allow with Warning, Not Allowed,* or *Replace Current with New*	High	This parameter is used to determine if orders based on the same part number and end item number can be generated. *Allowed:* Allows an order for the same part number and end item number. *Allow with Warning:* A duplicate order for the same part number and end item number is allowed but the user is warned. *Not Allowed:* Duplicate order for same part number and end item number is not allowed. *Replace Current with New:* The current order being created will replace an existing order with the same part number and end item number combination.
Custom Window Procedure	Procedure name	Medium; however, should only be changed by SAP	The procedure name, if any, for the customer proc to process orders.
Recreate Incremental Commits	*Yes* or *No*	Medium	This parameter governs commits between order re-creates.
Auto Hold New Orders by Effectivity	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter governs whether or not the system automatically places a Held for Planning (HFPLNG) hold on new orders created when an in-work plan revision exists for the model or unit of the order being created.
Retrieve part Information from	*MBOM* or *Planning*	High	This parameter identifies the part information source—BOMM or the Parts List.

3.6.2.17 NCM Integrated Configuration Parameters

The *NCM Integrated* configuration parameters control such settings as whether or not a nonconformance management system is integrated with SFM, if so, w hich system, and various nonconformanced record (NCR) settings.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *NCM Integrated* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
NCM Integrated	*Yes* or *No*	High	This parameter is used to specify that SFM is operating in conjunction with a nonconformance management system.
Non-conformance System	*HMS-NCM, HMS-QM,* or *External NCM*	High	This parameter defines whether NCM or a client-defined nonconformance system is being used.
List NCR's by Order	*Yes* or *No*	Medium	If this parameter is set to *Yes* NCRs are listed by the orders they are associated with. If it is set to *No*, NCRs are not listed by orders.
Allow Group logon into NCM	*Yes* or *No*	Medium	This parameter allows or does not allow access to NCM with a group logon ID while in group logon mode.
Allow add to existing NCR	*Yes* or *No*	Medium	This parameter allows or does not allow a discrepancy to be added to an existing NCR.
Allow Skip on added rework operations	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter allows or does not allow operations added via Order Maintenance or a rework plan to be skipped.
Hold Operation on Create NCR	*Always Prompt for Hold, Always Hold - No Prompt,* or *Never Hold - No Prompt*	Medium; however, should only be changed by SAP	This parameter determines whether a user is prompted to hold an operation when creating an NCR (it is not applicable during a reject).
QM System Release	*QM 2.3, QM 2.4,* or *QM 2.5*	Medium; however, should only be changed by SAP	This parameter defines the QM release level.

3.6.2.18 Project Interface Configuration Parameters

The *Project Interface* configuration parameter indicates whether or not PMI is integrated with SFM.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *Project Interface Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Project Interface Enabled	*Yes* or *No*	High	This parameter is used to specify that SFM is operating in conjunction with PMI.

3.6.2.19 Callboard Configuration Parameters

The *Callboard* configuration parameters govern such settings as whether Electronic Callboard is active, how calls are forwarded and deleted, and if users can modify freeform calls when they are copying them.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *Callboard Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Callboard Active	*Yes* or *No*	High	This parameter defines whether the Electronic Callboard is working interactively with SFM. It is used by the Complete Job and Reject Operation functions to determine whether to prompt for buyoff calls.
Automatically Default Buy-off Call	*Yes* or *No*	Medium	This parameter defines whether or not operations are preselected within the *Buyoff Call* dialog box during the Complete Job and Reject Operation functions.
Automatic Callboard Refresh Active	*Yes* or *No*	Medium	This parameter defines whether the Callboard is automatically refreshed or if users can only do manual refreshes.
Automatic Refresh Interval (Minutes)	Number of minutes	Medium	If the *Automatic Callboard Refresh* parameter is set to *Yes*, this parameter determines how often the refresh occurs.
Forward Callboard Work	*Selection by User* or *Automatic Transfer*	Low	This parameter defines whether the user selects calls to forward or all open calls are forwarded.
Call Deletion	*Automatically Delete Calls after Retention Period* or *Do Not Automatically Delete Calls*	Medium; however, should only be changed by SAP	This parameter determines whether calls are or are not automatically deleted after the designated retention period.

Parameter	Valid Values	Criticality	Description
Call Deletion Log	Path and file name	Medium; however, should only be changed by SAP	This parameter lists the path and file name for the call deletion log.
Production Affected Acknowledgement	*Yes* or *No*	Medium	This parameter identifies whether special acknowledgement is or is not required by the sender when he or she completes a call identified as production affected.
Access Mode to Callboard	*Show Only Assigned Callboards* or *Show All Callboards*	Medium	This parameter defines whether the callboard displays all the user's groups and callboards or the callboard is limited to the user's assigned groups and callboards. *Show Only Assigned Callboards:* Shows only the users' assigned callboards. *Show All Callboards:* Shows the user all callboards.
Retrieval Warning Level	Any number greater than or equal to 1	Medium	This parameter specifies the number of rows allowed before the system requests if the user wants to see more rows.
Maximum Call Retrieval Level	Any number greater than or equal to 1	Medium	This parameter defines the maximum number of rows that will be retrieved by a query.
Tie Freeform Calls to Work Location	*Yes* or *No*	Medium	This parameter controls whether or not a work should be associated with a freeform call.
Allow modification during copy of a call	*Yes* or *No*	Medium	This parameter controls whether users can modify a freeform call when they are copying it.

Parameter	Valid Values	Criticality	Description
Copy attachments and remarks	*Prompt User; Copy Request Remarks Only; Copy Attachments Only; Copy Attachments and Request Remarks;* or *Do Not Copy Request Remarks and Attachments*	Medium	This parameter controls the copying of remarks and attachments when a user is copying a freeform call. *Prompt User:* Displays a dialog box in which the user can choose whether to copy the call request remarks and attachments. This is the only option that requires user interaction; the others are handled by the system. *Copy Request Remarks Only:* Copies only the call request remarks. *Copy Attachments Only:* Copies only the call attachments. *Copy Attachments and Request Remarks:* Copies both. *Do Not Copy Request Remarks and Attachments:* Does not copy them.
Highlight Completion Oper/Steps for Call	*Highlight Only Completion Oper/Steps* or *Highlight All Potential Oper/Steps*	Medium	This parameter determines what operations/steps are selected on the *Buyoff Call Feedback* dialog box that displays when users create a buyoff call. *Highlight Only Completion Oper/Steps* highlights only the operation or step that the user is completing. *Highlight All Potential Oper/Steps* lists all operations or steps for which a buyoff call can be created and highlights them all in the list. Using two options on the *Buyoff Call Feedback* dialog box, users can switch between highlighting all operations/steps or only the one selected for completion.

3.6.2.20 ABOM Integrated Configuration Parameters

The *ABOM Integrated* configuration parameters govern whether or not the ABOM functionality is integrated with SFM and how it behaves if so.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *ABOM Integrated* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
ABOM Integrated	*Yes* or *No*	High	This parameter indicates if ABOM is or is not integrated with SFM.  If the *Duplicate Serials Allowed* configuration parameter is set to *Yes* and this control parameter is changed to *Yes*, the system resets this parameter back to *No*.
Append To Existing Removal Order Allowed	*Yes* or *No*	Low	This parameter allows or does not allow appending to an existing removal order.
P and Q Checks by Same Inspector Allowed	*Yes* or *No*	Medium	This parameter allows or does not allow P and Q checks of removal parts to be carried out by the same inspector.
Allow Creation of ROs vs. All Orders	*Yes* or *No*	Medium	This parameter allows or does not allow the creation of removal orders against all orders. If this is set to *Yes*, all the following control parameters are automatically set to *Yes* and are disabled so that they cannot be changed.
Allow Creation of ROs vs Closed Ords	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter allows or does not allow the creation of removal orders against orders with a status of "Closed."
Allow Creation of ROs vs Started Ords	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter allows or does not allow the creation of removal orders against orders with a status of "Started."
Allow Creation of ROs vs N Started Ords	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter allows or does not allow the creation of removal orders against orders with a status of "Not Started."
Allow Creation of ROs vs Traveled Ords	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter allows or does not allow the creation of removal orders against orders with a status of "Traveled."

Parameter	Valid Values	Criticality	Description
Allow Creation of ROs vs Scrapped Ords	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter allows or does not allow the creation of removal orders against orders with a status of "Scrapped."
Allow Creation of ROs vs Cancelled Orders	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter allows or does not allow the creation of removal orders against orders with a status of "Cancelled."
When to Send Removal Order Part Info	*Part information sent at order closure* or *Immediately upon part buyoff*	Medium; however, should only be changed by SAP	This parameter determines when part information is sent to ABOM for removal order parts—either at order closure or upon part buyoff.

3.6.2.21 Electronic Bar Chart Configuration Parameters

The *Electronic Bar Chart* configuration parameters govern whether or not the Electronic Bar Chart is active and how it behaves if so.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *Electronic Bar Chart* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Electronic Bar Chart Active	*Yes* or *No*	High	This parameter indicates if the Electronic Bar Chart is or is not active.
Work/Zone View Active	*Yes* or *No*	High	This parameter indicates if Work Package and Zone views are or are not active in the Electronic Bar Chart.
Realization Factor Calculation Active	*Yes* or *No*	High	This parameter determines if the realization factor in the Electronic Bar Chart is or is not based on total actual hours supplied by the customer's system.
Open on First Started	*Yes* or *No*	Low	This parameter determines how orders display in the Electronic Bar Chart. If this is set to *Yes*, the EBC centers on the first started order for the Work Center/Area/Location.

Parameter	Valid Values	Criticality	Description
Job Operations View	*Yes* or *No*	Medium	This parameter controls the display of the Electronic Bar Chart. If this parameter is set to *Yes*, a *Job/Opers* option is added to the *Graph View* pull-down field on the *Electronic Bar Chart* dialog box. When a user selects this option, the bar chart displays all orders for the work center/work area/work location and ship number, and each order includes its corresponding operations, regardless of the operation's work center.
EBC Automatic Refresh Active	*Yes* or *No*	Medium	This parameter determines whether the Electronic Bar Chart is automatically refreshed or if users can only do manual refreshes.
EBC Automatic Refresh Interval (Minutes)	Number of minutes	Medium	If the *EBC Automatic Refresh Active* configuration parameter is set to *Yes*, this parameter determines how often the automatic refresh occurs.

3.6.2.22 Certification Configuration Parameters

The *Certification* configuration parameters govern such settings as if to check operator's certifications when starting operations, if certifications are usage based, if training certifications are allowed, and more.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *Certification Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Certification Operation Check	*Yes* or *No*	High	This parameter determines whether or not to check for operator certifications.
Certification Skill Level Check	*Yes* or *No*	Medium	This parameter determines whether or not the Certification Skill Levels are active.
Certification Work Assignment Check	*Yes* or *No*	Medium	This parameter determines whether or not the work assignment check is active for certifications.

Parameter	Valid Values	Criticality	Description
Usage Based	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter determines whether or not certifications are usage based. If this parameter is set to *Yes*, once a user is granted certification the user is deemed to have maintained that certification based on actual usage/application during the performance of work requiring that certification. If this is set to *Yes*, several usage fields display on the *Add Certification* and *Edit Certification* dialog boxes. If this is set to *No*, which is the default, the certification is considered time-based.
Training Certification	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter is used to indicate whether or not a certification is a training one only. If this is set to *Yes*, a *Training Cert* check box displays on the *Certification Assignments* dialog box to indicate training certifications are allowed and on the *Edit Certification Assignment* dialog box to designate that the user only has a training certification. There is also a *Training Cert* column on the *Certification Assignments* dialog box that displays *Yes* for any user with a training certification.

3.6.2.23 First Article Configuration Parameters

The *First Article* configuration parameters govern such FAI settings as how many parts can run through the shop before the first article inspection requirement is imposed, if partial inspections are allowed, and other FAI functionality.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *First Article Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Also see the Define First Article Inspection Requirements on page 117 for information on the configuration parameters specific to FAI.

Parameter	Valid Values	Criticality	Description
Max units run prior First Article	Any number	Medium; however, should only be changed by SAP	This parameter is used as the default on the First Article Requirement Record (FARR) to specify how many parts can be run through the shop before an FAI has to take place. The counter begins once a FARR has been set to "Active" status. Normally the inspection would be on the first part but by specifying a limit, the shop has some flexibility as to when to perform the additional inspection task. The number can be overridden when a user creates a FARR.
Allow FAI Type Partial	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter specifies that partial first article inspections are or are not allowed. If this is set to *Yes*, certain characteristics can be validated by accepting the inspection results from a previous First Article Inspection Record (FAIR) that has been completed. If this is set to *No*, it is mandatory for each inspection record to be collected in full.
Accumulate Incomplete Inspection Results	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter is used as the default on the FARR to allow or not allow previously collected data on failed FAIRs to be copied to the next FAIR on the next order. If this is set to *No*, all measurements must be remeasured. If this is set to *Yes*, only measurements with a "Passed" status are copied over.
Prevent Job Start w/ Inprocess Insp.	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter is used as the default on the FARR to allow or not allow new orders to start after a FAIR has been created and associated to an order that is in work. If this is set to *No*, orders can be started but they cannot be completed without completing the FAIR.
Check Component FAI Status	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter must be set to *Yes* to activate custom code for including the roll-up of status for First Article Inspections from component parts of the parent order.
Allow Override of Results	*Yes* or *No*	Medium; however, should only be changed by SAP	If this parameter is set to *Yes*, it allows a user to override failed first article inspection results in order to allow the article to pass its first article inspection.
Activate Callboard Notification	*Yes* or *No*	Medium; however, should only be changed by SAP	If this parameter is set to *Yes*, users can send buyoff calls for first article inspections. Setting this to *Yes* requires that groups be set up as a callboard group and can receive FAI calls.

Parameter	Valid Values	Criticality	Description
FAI-NCM Integrated	*Yes* or *No*	Medium; however, should only be changed by SAP	If this parameter is set to *Yes*, NCM handles FAI discrepancies.

3.6.2.24 ERP Interface Configuration Parameters

The *ERP Interface* configuration parameters govern whether or not the SFM is interfaced to SAP and how it behaves if so.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *ERP Interface* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
ERP Interface Active	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter is used to indicate whether or not the system is interfaced to SAP. *No*ne of the following parameters are enabled if this is set to *No*.
Operation Confirmation Enabled	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter determines whether or not the operation confirmation interface is on or off.
Use Max Rev for Order Create	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter indicates whether or not to list the maximum part revision or Tasklist/Group Counter on the order header.
Exclude Part Type for Order	Valid part types	Medium; however, should only be changed by SAP	This parameter lists the part types, e.g., MA or EI, that the Order Create process should ignore when creating an order.
Create Certs as Needed	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter indicates whether or not a certification should be skipped or created if the certification does not exist.
Explort Plan to SAP Step ERP	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter indicates whether or not the plan should be exported to SAP ERP upon completion. If the value in *No*, the plan is not exported.
Generate SAP Task List and Group Counter	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter indicates whether or not the system is to generate SAP Task List and Group Counter Information. If the value is *No*, then no Task List or Group Counter is generated.

Parameter	Valid Values	Criticality	Description
SAP BOM Effectivity Definition	Valid SAP effectivity definition	Medium; however, should only be changed by SAP	This parameter indicates the name of the parameter effectivity definition in SAP.
Add Items to SAP Change Master	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter indicates whether CAMS or SAP is controlling Change Masters. If the value is *No*, then SAP is controlling the Change Masters.
BOM Release Enabled	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter indicates whether or not the BOM release to SAP is enabled. If the value is *No*, then BOM release to SAP is not enabled.
URL for SAP CAMS-INT	Valid URL	Medium; however, should only be changed by SAP	This parameter lists the URL to which the commands for the SAP ERP interface are sent.
SAP CAMS-INT Authentication File Name	File name and path	Medium; however, should only be changed by SAP	This parameter lists the name of and path to the authentication file containing the (encrypted) user name and password required to access CAMS-INT (SAP ERP Interface).
SAP Change Master Number Format	Number format	Medium; however, should only be changed by SAP	This parameter provides the format of the number to create when creating new Change Masters (externally) for SAP ERP.
SAP Change Master Number Prefix	Valid prefix	Medium; however, should only be changed by SAP	This parameter provides the prefix for the number to create when creating new Change Masters (externally) for SAP ERP.
Disable Sending Messages to MII	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter indicates whether not sending messages to MII is enabled. If the value is *Yes*, then messages are disabled.
Change Number for Given BOM Usage	Valid number	Medium; however, should only be changed by SAP	This parameter lists the SAP Change Number for given BOM usage.
Value to Increment the Line Item By	Valid value	Medium; however, should only be changed by SAP	This parameter lists the SAP value to increment the line item by.
List of Cols to Exc from BOM Imp	Valid column names	Medium; however, should only be changed by SAP	This parameter lists the columns to exclude from a BOM import, separate by a space.
Order Create Interface Enabled	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter indicates whether or not the order create interface is on or off.

Parameter	Valid Values	Criticality	Description
Certifications Import Interface Enabled	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter indicates whether or not the certification import interface is on or off.
Part Master Interface Enabled	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter indicates whether or not the part master interface is on or off.
Resend Data Interface Enabled	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter indicates whether or not the resend data interface is on or off.
Enforce SAP Data Rules	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter indicates whether or not to perform data checks for SAP. Set to *No* if the endpoint is not SAP ERP.
Use Plant as ERP Site	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter indicates whether or not Plant Code is used for ERP Connector versus truncated site code.
Order Split Interface Enabled	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter indicates whether or not the order split interface is on or off.
Order Cancel Interface Enabled	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter indicates whether or not the order cancel interface is on or off..
W/C Create Update Interface Enabled	*Yes* or *No*	Medium; however, should only be changed by SAP	This parameter indicates whether or not the Work Center create/update interface is on or off.

3.6.2.25 Time Sensitive Material Configuration Parameters

The *Time Sensitive Material* configuration parameters govern the TSM shelf life and floor life warning thresholds and how often orders are scanned for expired TSM.

To edit these configuration parameters, select the SFM *System* → *Configuration Parameters* menu. In the *Control Parameters* dialog box, click the *Time Sensitive Material* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
TSM Shelf Life Warning Threshold (Hours)	Number	Medium; however, should only be changed by SAP	This parameter defines the threshold at which a warning should display for a TSM's shelf life expiration; for example, if this is set to 72, a warning displays when the shelf life is within 72 hours.
TSM Floor Life Warning Threshold (Hours)	Number	Medium; however, should only be changed by SAP	This parameter is used to define the threshold at which a warning should display a TSM's floor life expiration; for example, if this is set to 2 hours, a warning displays when the shelf life is within 2 hours.
TSM Orders Scan Interval (0 to 23 Hours	Number between 0 and 23	Medium; however, should only be changed by SAP	This parameter indicates how often the system should scan SFM orders with TSM for expiration dates.
Display Graphics and Instructions	*Yes* or *No*	Low	This parameter indicates whether or not to display graphics and instruction data.

3.7 Create Rework Plan/Order

3.7.1 Overview

In the event of any material or process discrepancies found during SFM order execution, users can issue a nonconformance record using NCM. Rework orders or rework plans can be created as needed from NCM.

3.7.2 Configuration Details

The NCM configuration parameters are divided into 6 sections:

- SFM Interface Parameters
- Discrepancy Parameters
- Disposition Parameters
- Supersede Parameters
- Resubmit Parameters
- Miscellaneous Parameters

3.7.2.1 SFM Interface Configuration Parameters

The *SFM Interface* configuration parameters govern how NCM interfaces with SFM.

There are also some NCM configuration parameters in SFM. See NCM Integrated on page 159.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *NCM* menu. In the *NCM Parameters* dialog box, click the *SFM Interface Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
NCM Integrated with SFM	*Yes* or *No*; default is *No*	High	This parameter indicates if the integration between SFM and NCM is active. Integration defines whether or not the implementation is utilizing the quick create from SFM or the integrated approach.
Name of "P" Shop Buyoff Group	Entry; default is Shop	Medium	This parameter defines the name of the "P" shop buyoff group in SFM (P stamp).
Name of "Q" Shop Buyoff Group	Entry; default is Inspection	Medium	This parameter defines the name of the "Q" shop buyoff group in SFM (P stamp).
Name of "C" Shop Buyoff Group	Entry; default is Customer	Medium	This parameter defines the name of the "C" shop buyoff group in SFM (P stamp).
Group Buyoffs in Rework Order	*Yes* or *No*; default is *No*	Medium	This parameter indicates that buyoffs should be grouped by buyoff group in a rework order create.
Buyoff User ID for Skipped Operations	Entry; default is blank	Medium	This parameter defines the user ID to use to buyoff NCM buyoffs that were tied to operations in SFM that did not close due to a resubmit. For example, if the Q operation is resubmitted and the P operation is skipped by the system, then by default the "P" buyoff line in SFM is deleted because the operation was not completed. If you define a user id in this parameter, the system will not delete the "P" buyoff. It will close it with the defined user ID.
Create Rework Order in Background	*Yes* or *No*; default is *No*	Medium	This parameter indicates if rework orders should be created using the background Order Create process.
Customer Create Rework Order Proc	Entry; default is blank	High	This parameter indicates the name of the proc to use to create rework orders in case there is a need to do something special.

Parameter	Valid Values	Criticality	Description
Validate Work Center by Active End Item	*Yes* or *No*; default is *Yes*	Medium	This parameter indicates whether the work center validation during Quick Create should check the valid end item table for active work centers. This will only be used for unitized order types as defined in the Shop Order Type table.
Disable Quick Create Shop Text	*Yes* or *No*; default is *No*	Medium	This parameter indicates whether the different levels of text on the Quick Create Rework Order window should be disabled.
Default Prod Text for Quick Create	Entry; default is blank	Low	This parameter allows the implementer to specify default PROD text in the Quick Create Rework Order window.
Use Precedence in Rework Orders	*Yes* or *No*; default is *Yes*	Medium	This parameter indicates if rework orders use precedence.
Use Ready Qty in Operation Validation	*Yes* or *No*; default is *Yes*	Medium	This parameter indicates if the Ready Quantity should be used in the validation of the shop operations.

3.7.2.2 Discrepancy Configuration Parameters

The *Discrepancy* configuration parameters govern the discrepancy functionality.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *NCM* menu. In the *NCM Parameters* dialog box, click the *Discrepancy Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Prompt for Header Store on Discrepancy	*Yes* or *No*; default is *No*	Medium	This parameter indicates whether or not the system should prompt for header level store from the store of discrepancy data.
Check Header Mandatory @ Discrepancy Add	*Yes* or *No*; default is *Yes*	Medium	This parameter indicates whether the NCM Header mandatory fields should be checked before allowing a discrepancy to be added.

Parameter	Valid Values	Criticality	Description
Add Discrepancy to NCR for Closed Order	*Yes* or *No*; default is *Yes*	Medium	This parameter indicates whether or not a discrepancy can be created with a closed original order.
Copy Discrepancy Text for NCR Types	Entry; default is blank	Medium	This parameter indicates whether or not to copy the discrepancy text for specific NCR types. Value is a list of valid NCR types for which to perform the copy.

3.7.2.3 Disposition Configuration Parameters

The *Disposition* configuration parameters govern the disposition functionality.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *NCM* menu. In the *NCM Parameters* dialog box, click the *Disposition Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Dispostion Buyoff Comments Mandatory	*Yes* or *No*; default is *Yes*	Medium	This parameter indicates if comments are required for buyoffs of dispositions.
Allow Multiple Open Disposition	*Yes* or *No*; default is *No*	Medium	This parameter indicates whether or not it is possible to have multiple open dispositions on a discrepancy at the same time. NOTE: To support TEMPORARY dispositions with this mode, the disposition number field must be configured to be a REAL number with at least 1 decimal place. TEMPORARY dispositions will be numbered as 1.0, 1.1, 1.2, etc., or 1.01, 1.02, etc., depending on the number of decimals specified.
NCR Types with Multiple Dispositions	Entry; default is blank	Medium	This parameter indicates which NCR types allow multiple dispositions.
Allow Re-Open of Dispositions	*Yes* or *No*; default is *No*	Medium	This parameter indicates whether to allow dispositions to be placed back into author mode.

Parameter	Valid Values	Criticality	Description
Removal Type Disposition Codes	Entry; default is blank	Medium	This parameter indicates which disposition codes are removal types. These will cause the SFM Removal Order Record logic to be used to create the rework order.
Manual Order Create for Dispositions	*Yes* or *No*; default is *Yes*	Medium	This parameter indicates that the user must manually initiate the Order Create process for a single disposition type. Otherwise the Quick Create process will be launched automatically on storing the disposition complete with no signoff lines left if they have not created an order manually.
Force Optional Rwk Order if Shop Buyoffs	*Yes* or *No*; default is *Yes*	Medium	This parameter indicates whether "Optional" type disposition codes should assume a rework order is needed if the buyoffs on the disposition include any of the PQC buyoff groups.

3.7.2.4 Supercede Configuration Parameters

The *Supercede* configuration parameters govern the what can and cannot be superceded.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *NCM* menu. In the *NCM Parameters* dialog box, click the *Supercede Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Supercede Same Type NCR only	*Yes* or *No*; default is *Yes*	Medium	This parameter indicates that an NCR may only supercede another NCR of the same type.
Supercede Display Status List	Entry; default is blank	Medium	This parameter defines the list of the NCR Display Status values that may be used when validating the NCR number. By default the list is empty. This means that any status except "OPEN" may be superceded. As an example, to limit the list to the values "OPEN, CLOSED or CANCELED," you would define the list as follows: OPEN CLOSED CANCELED
Allow Supercede of NCR for Closed Order	*Yes* or *No*; default is *Yes*	Medium	This parameter indicates whether an NCR attached to a closed order can be superceded.

Parameter	Valid Values	Criticality	Description
Allow Non-Existent NCR for Supercede	*Yes* or *No*; default is *No*	Medium	This parameter indicates whether an NCR may be Superceded by NCR that does not (yet) exist.

3.7.2.5 Resubmit Configuration Parameters

The *Resbumit* configuration parameters govern who NCRs are resubmitted to.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *NCM* menu. In the *NCM Parameters* dialog box, click the *Resubmit Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Resubmit to both User and Group	*Yes* or *No*; default is *Yes*	Medium	This parameter indicates whether an NCR will be resubmitted to both group and user name. Otherwise it will resubmit to just the group name.
Resubmit to Creator Group Only	*Yes* or *No*; default is *No*	Medium	This parameter indicates whether an NCR will be resubmitted to just the creator group and optionally the user name based on the configuration parameter above. Otherwise it will rebuild the entire signoff cycle after the creator group.

3.7.2.6 Miscellaneous Configuration Parameters

The *Miscellaneous* configuration parameters define such settings as customer edit procs and if NCRs can have nonexistent shop order numbers in them.

To edit these configuration parameters, select the CAPP *Maintenance* → *Configuration Parameters* → *NCM* menu. In the *NCM Parameters* dialog box, click the *Miscellaneous Parameters* bar.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
Customer Edit NCR Proc Name	Entry; default is blank	High	This parameter indicates the name of the customer-specific Edit NCR proc that will be used instead of the core EditPlan proc.

Parameter	Valid Values	Criticality	Description
Quick Create NCR Subheader list	Entry; default is blank	Medium	This parameter defines the list of Subheaders (if any) that are allowed to be included in the NCR Quick Create process.
Allow Non-Existent Shop Order Number	*Yes* or *No*; default is *No*	Medium	This parameter indicates if non-existent shop order numbers should be allowed when validating Order Number fields in NCR documents.
Log Number part of NCR Key	*Yes* or *No*; default is *No*	High	This parameter indicates if the NCR Log Number is being used as a second primary key. This is used to interact with the WIP_NCM_ORDER_MAP table.

3.8 Define Schedule Templates

3.8.1 Overview

Project Management Integrator combines current planning data from the CAMS suite with the Microsoft® Project application. Users can author schedule templates using the latest planning data and standards to enable project decision-making software to produce realistic and resource-maximizing schedules.

3.8.2 Configuration Details

To set the PMI configuration parameters, select *Maintenance* → *Configuration Parameters* → *PMI.* The *PMI Parameters* dialog box displays. See the table below for descriptions of the parameters.

See Criticality Column Definitions on page 15 for information on the Criticality column.

Parameter	Valid Values	Criticality	Description
PMI Enabled / Disabled	*Yes* or *No*	Medium	This parameter indicates if the PMI module is enabled (*Yes*) or disabled (*No*).
Project Tool Interface	MSP	High	This parameter indicates the Project Tool to use to display schedules defined in PMI. Currently only MSP (Microsoft Project) is supported.
Task Type	*Fixed Units (resource)* *Fixed Work (hours)* *Fixed Duration (timespan)*	Medium	This parameter indicates the type of tasks to create in Project. UNIT means the assigned Resources are fixed. WORK means the hours required to complete the task are fixed. DURATION means the time span required to complete the task is fixed.
Include Operation-Level Tasks	*Yes* or *No*	High	This parameter indicates that Operation-Level tasks should be included in schedules developed by the PMI module.

Parameter	Valid Values	Criticality	Description
Task Duration Display Units	*Days, Hours,* or *Minutes*	Medium	This parameter indicates the units to use when displaying Task Durations in the project.
SQL Date Format	*MM/DD/YYYY HH24:MI*	High	This parameter indicates the format to use when querying dates from the database for the project.
Order Create Transaction Proc Name	`::hms::home bin RunBatchProcessTrans.bat`	High	This parameter indicates the name of a proc to call to process shop order creates. This should be the exact path to the batch processing bat file.
Plan Precedence Table	Table name, for example, PLAN_PRECEDENCE	High	This parameter defines the precedence table (if any). This is related to the next parameter (Plan Precedence Column). Both of these can be null, but if one is specified, both must be specified.
Plan Precedence Column	Column name, for example, PART_NUMBER	High	This parameter defines the precedence column (if any). This is related to the previous parameter (Plan Precedence Table). Both of these can be null, but if one is specified, both must be specified.
Copy Resources From Template to Schedule	Entry	Medium	This parameter indicates that Resource Assignments should be copied from the template to a schedule when creating a schedule.  Be very careful with this option. If you use it, the assignment durations from the TEMPLATE will drive the duration of the task in the schedule, not the time standards from the plans. In effect you will be getting assignments and durations from the template when creating a schedule.
Copy SFM Resources To Template	Entry	Medium	This parameter indicates that SFM Resources should be copied to the Template when creating a Template. This will copy the SFM resources from to the project template (and subsequently to the schedule if you have the `::hmsProjectConfig::copyResourcesToSchedule` set true). It will copy the resources assigned to the work center the project is created for.
Task Description Field Name	Entry; default is Task Text3	Medium	This parameter indicates the name of the "task text" field (in MS Project) to use for the Task Description.

Parameter	Valid Values	Criticality	Description
Task Description Field Title	Entry; default is Job Description	Medium	This parameter indicates the display title of the "task text" field (in MS Project) to use for the Task Description.
Task Order Number Field	Entry; default is Task Text4	Medium	This parameter indicates the name of the "task text" field (in MS Project) to use for the Task (SFM) Order Number.
Task Order Number Title	Entry; default is Job Order Number	Medium	This parameter indicates the display title of the "task text" field (in MS Project) to use for the Task (SFM) Order Number.
Task Order Status Field	Entry; default is Task Text5	Medium	This parameter indicates the name of the "task text" field (in MS Project) to use for the Task (SFM) Order Status.
Task Order Status Title	Entry; default is Order Status	Medium	This parameter indicates the display title of the "task text" field (in MS Project) to use for the Task (SFM) Order Status.
Task Document Key Field Name	Entry	Medium	This parameter indicates the name of the "task text" field (in MS Project) to use for the Key field of the Document.
Task Document Key Field Title	Entry	Medium	This parameter indicates the display title of the "task text" field (in MS Project) to use for the Key field of the Document.
Task Zone Field Name	Entry	Medium	This parameter indicates the name of the "task text" field (in MS Project) to use for the Zone field.
Task Zone Field Title	Entry	Medium	This parameter indicates the display title of the "task text" field (in MS Project) to use for the Zone field.

4 Security Information

See the *CAMS Security Guide* for CAMS security information, such as user administration and authentication; authorizations; network and communications; data storage; and other security-relevant information.

5 Operations Information

See the *CAMS Operations Guide* for information on managing, maintaining, and running the CAMS applications. It also covers troubleshooting and support desk procedures.