

## Reading Sample

Even after the PP/DS heuristics are executed in regular frequencies, not all planning and scheduling problems are solved by the various executed heuristics or by the PP/DS optimizer. In such cases, the planners and schedulers need to be notified to react to specific planning and scheduling problems. Delivered standard in PP/DS for SAP S/4HANA, the Alert Monitor is a powerful tool for identifying, monitoring, and managing exception situations in the planning and scheduling process. This chapter covers the details of the Alert Monitor and the steps required to set up the alerts in the system.

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# Chapter 7

## The Alert Monitor

*To identify planning and capacity issues in your embedded PP/DS system, you can use the Alert Monitor. In this chapter, we'll walk through the setup steps.*

Even after the PP/DS heuristics are executed in background mode in regular frequencies—typically daily—not all planning and scheduling problems are completely solved by the various executed heuristics or by the PP/DS optimizer. In such cases, the planners and schedulers need to be notified to react to the specific planning and scheduling problems. These actions can be manual decisions to cancel or delay manufacturing orders, to add or reduce shifts and capacities to handle underutilization or overutilization of a resource, or to schedule production orders to meet specific customer orders that are delayed when the delay can't be resolved by the planning and scheduling heuristics.

For enterprise resource planning (ERP) systems such as SAP ERP, in classic material requirements planning (MRP), exceptions are generated during the MRP run that can be reviewed by the planners. However, these are static exceptions with little flexibility to customize the severity or scenarios for which the exceptions are raised.

Delivered standard in PP/DS for SAP S/4HANA (embedded PP/DS), the Alert Monitor is a powerful tool for identifying, monitoring, and managing exception situations in the planning and scheduling processes. The Alert Monitor is embedded into most of PP/DS applications and tools, so planners and schedulers always have visibility of the alerts when they are making any plan or schedule changes in the system. The Alert Monitor also has features to identify the alerts and send notifications to the users for alerts that require immediate action.

In this chapter, we'll cover the details of the Alert Monitor and the steps required to set up the alerts in the system.

### 7.1 Alert Profiles

The PP/DS Alert Monitor works based on alert profiles that are assigned to the overall profile of the PP/DS applications, such as the product view, production planning table, or the detailed scheduling detailed scheduling planning board. In addition, the Alert Monitor itself can be used as a standalone tool to monitor alerts. When the Alert

Monitor is called from the applications, the alerts relevant to the application are displayed. For example, when the Alert Monitor is called from the product view, the material-, location-, and order-related alerts are displayed; likewise, when the Alert Monitor is called from the detailed scheduling planning board, it also shows alerts related to resource capacities. PP/DS supports the following two types of alerts:

#### ■ Dynamic alerts

Most of the alerts configured in PP/DS fall into this category. Dynamic alerts are generated at the time of the call to a planning or scheduling application or while determining the alerts from the Alert Monitor itself. Dynamic alerts aren't stored permanently and can't be set as completed or closed until the underlying planning or scheduling problem is addressed.

#### ■ Database alerts

The use of database alerts in PP/DS is very limited. For example, when a material runs into an error or an exception during the production planning run, a database alert can be created and saved in the system for review and later deletion from the system.

In this section, we'll get started by activating the Alert Monitor and walking through how to set up alerts in the alert profile.

### 7.1.1 Activate and Access the Alert Monitor

PP/DS is delivered by default as an active application to be managed by the Alert Monitor. The activation and deactivation of the Alert Monitor for applications in the SAP S/4HANA system can be done from Customizing menu path, **SAP IMG Menu • Advanced Planning • Alert Monitor • Activate/Deactivate Applications in Alert Monitor**. As shown in Figure 7.1, the PP/DS application is active as delivered. When advanced planning is activated in the SAP S/4HANA system, the Alert Monitor can be used in advanced planning, which is embedded PP/DS.

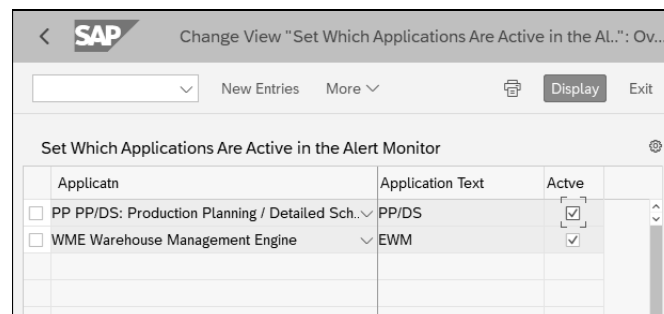


Figure 7.1 Activation of PP/DS for the Alert Monitor

The Alert Monitor can be accessed from Transaction /SAPAPO/AMON1 or the **SAP Easy Access** menu path, **Logistics • Advanced Planning • Monitoring • Alert Monitor • Alert Monitor**. The initial screen of the Alert Monitor transaction includes **Favorite Management**, which we'll discuss in Section 7.2.1. By clicking on the **Alert Profile** button, you can navigate to the **Alert Profile Maintenance** screen, as shown in Figure 7.2.

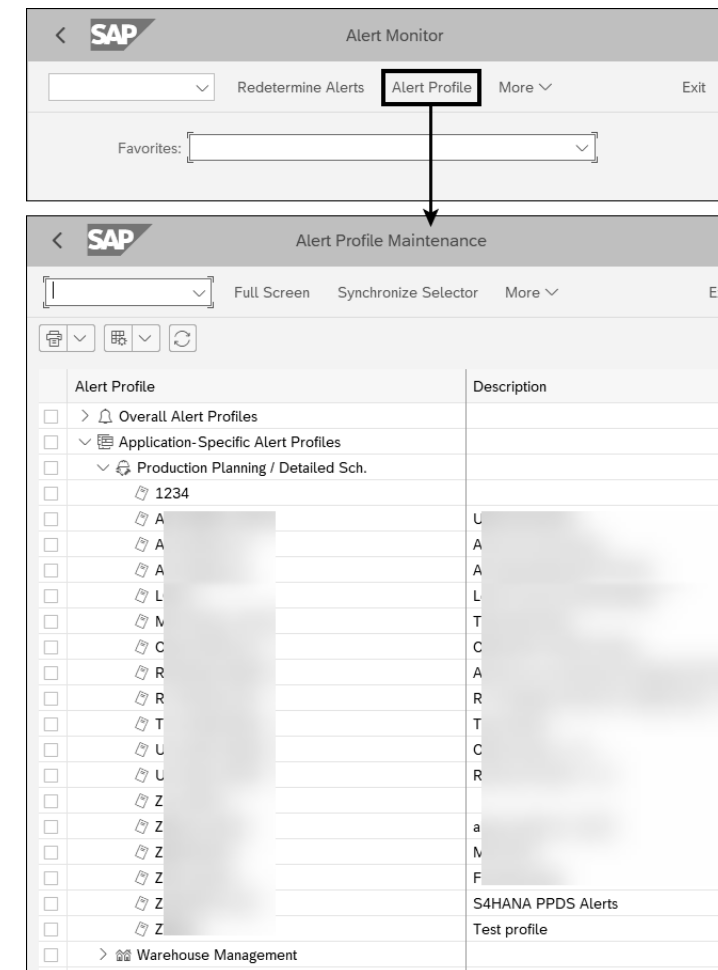


Figure 7.2 Alert Monitor: Alert Profile Maintenance

On the navigation tree on the left side of the screen, you'll see the overall alert profiles and the application-specific profiles. The individual application profiles, such as alert profiles for PP/DS, are created and then assigned to the overall profiles. The individual application profiles created in the Alert Monitor can be assigned to the application tool profiles, such as profiles for the detailed scheduling planning board and order views in PP/DS.

### 7.1.2 Create Alert Profile

Let's start by creating the application profiles. Under **APO Application-Specific Alert Profiles • APO Production Planning/Detailed Scheduling**, right-click on the **PP/DS** folder, or click on the **Create Profile** button at the top of the screen to create a new application alert profile, as shown in Figure 7.3.

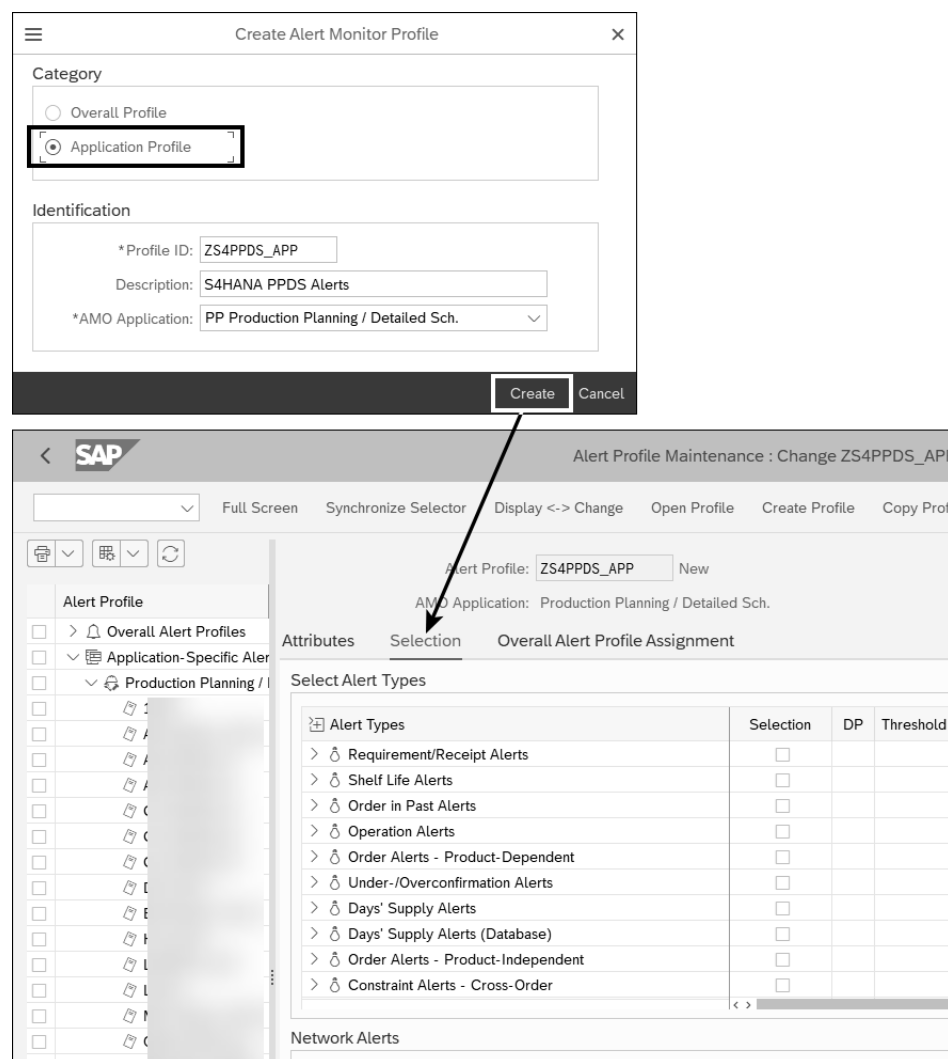


Figure 7.3 Creation of an Application Profile in the Alert Monitor

In the **Create Alert Monitor Profile** popup, select the **Application Profile** radio button, enter a **Profile ID** and **Description**, select **Production Planning / Detailed Sch.** as the application, and click on the **Create** button. This will load the new profile in the right side of the screen with three tabs: **Attributes**, **Selection**, and **Overall Alert Profile Assignment**.

The next steps are to select the relevant alert types and set up the threshold values for generation of the alerts.

#### Select Alert Types

Click on the **Selection** tab, and you'll see the list of all available PP/DS alert types delivered in the embedded PP/DS standard system. Under each alert type, there are various alerts available for configuration. Expand the **Alert Types** folders (see Figure 7.4) to see the individual alerts under them. You can select all the individual alerts under any alert type by setting the **Select** (selection) flag at the folder level or by setting the **Select** flag at the individual alert type.

Depending on the alert selected, you define the threshold values for the alerts to be raised. You have the following options:

- **Information**  
Information alerts are considered the lowest-priority alerts to inform the user of a deviation from the plan or schedule. Users' reaction to an information alert is optional.
- **Warning**  
Warning alerts can be raised when the plan or schedule is about to cause a problem in the supply chain. User action is required to react to the warning alert.
- **Error**  
Error alerts can be raised when a violation of the plan or schedule is imminent or has already happened. These alerts must be addressed by the planners and schedulers immediately.

The default priority (**DP**) assigned to the alert is used by the system when there are no thresholds defined for the alert. For example, for the **Product too late** alert, if no threshold values are maintained for the information, warning, and error alerts, then the default priority assigned to the alert will be shown when there is any delay in covering a requirement element. The default priority of the alerts can be set for the alerts under the Customizing node: **SAP IMG Menu • Advanced Planning • Alert Monitor • Maintain Prioritization of Alert Types**. Click on the **New Entries** button, and using the value help **F4**, you can select the alert item for which you want to set a default priority and set the **Priority** as **Information**, **Warning**, or **Error** (see upper-left area of Figure 7.4). The default priority will only be used when no threshold is defined or for alerts that aren't relevant to threshold definitions (e.g., **Receipt with Violated Resource Network**). When there is no threshold defined for the alert—in Figure 7.4 for the **Product too late (dynamic pegging)** alert—the priority from Customizing (**3 Information**) is used in the alert profile, as shown in the lower-right screen in Figure 7.4.

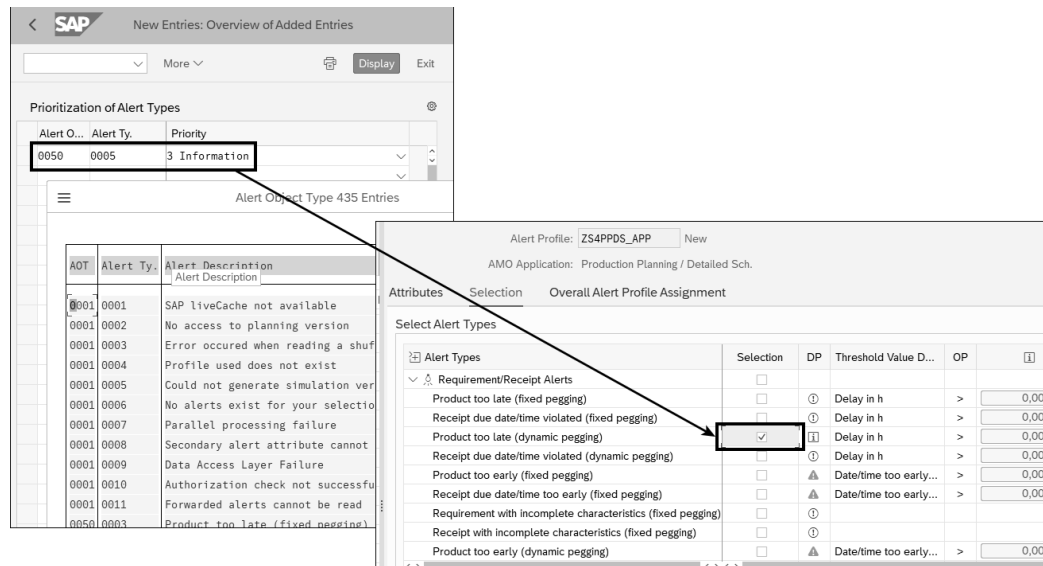


Figure 7.4 Customizing Setting for the Default Alert Priority

### Set Up Alerts

Now, let's go through the steps to set up an alert in the alert profile. Let's use the **Requirement/Receipt Alerts** alert type. **Product too late (dynamic pegging)** is one of the alerts available under this alert type. You set the **Select** flag at the alert level, as shown previously in Figure 7.4, and then click on the individual threshold buttons to set the values on the **Enter a Threshold Value** popup. If the delay for a requirement element exceeds the threshold set in the alert profile, the system will raise an alert accordingly. In the example shown in Figure 7.5, the system will create an information alert if the delay in hours (in covering the requirement element) is more than 24 hours, a warning if the delay is more than 48 hours, and an error if the delay is more than 72 hours.

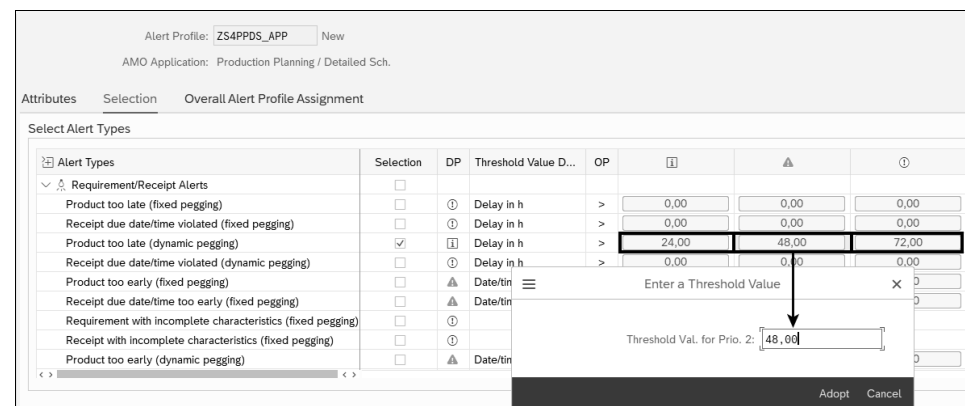


Figure 7.5 Setting Up Alert Thresholds in the Alert Monitor Application Profile

After the required alerts are selected and the thresholds are defined, the following settings can be maintained in the **Selection** tab of the alert profile, as shown in Figure 7.6 (accessed by scrolling down on the screen). Certain settings are only relevant if a certain alert or alert type is selected. We'll cover some of the important settings that are valid for many of the alerts and alert types.

#### ■ Network Alerts

Network alerts are used to raise the alert at the higher level of the pegging hierarchy to notify the planner of an alert raised in a lower level of the hierarchy. For example, a delay alert raised in the raw material coverage can be shown as a network alert of the sales order of the finished material. Select the **Display Requirements with Problems in Order Network** option to generate an alert when any of the pegged requirement elements raises an alert and/or the **Display Receipts with Problems in Order Network** to generate an alert when any of the pegged receipt elements raises an alert. The number of pegging levels the system needs to evaluate the alert for the lower levels is set in the **Search Depth** field. For example, if there are 10 levels of bills of materials (BOMs) and the corresponding pegging network created in PP/DS, and if the **Search Depth** is set to 3, only the alerts raised within the top three levels are propagated to the top level as a network alert.

#### Note

As the network alerts are performance intensive, only use them for specific scenarios as required. Restrict the **Search Depth** to a minimum number so that the alerts aren't calculated for the entire pegging network of a product when accessing the product from tools such as the product view.

#### ■ Selection of Location Products

In this area, the selection of location products and available-to-promise (ATP) categories are defined that are relevant for calculating the alerts.

The **Location Products** selection is only applicable in determining the alerts in the Alert Monitor. When the alert profile is used in another application, such as the product view or product overview, the product location selection from the alert profile isn't considered, and the selection entered in the application is considered.

To define a set of location products for which the alerts need to be calculated, click on the **Selection** icon next to the **Location Products** field, as shown in Figure 7.6. In the next screen for the **Selection Object**, enter the selection criteria. For example, for setting location selections, double-click on the **Location Name** field under the **Locations** node ①. Enter the location to be selected in the **Value From** and **Value To** fields ②. After the selection condition is maintained, it will be moved to the top of the list ③, and further conditions can be maintained similarly. The checkmark ④ shows that this selection parameter (**Location Name**, in our example) has existing selection

conditions, and the first value of the selection condition from the list of conditions **3** is displayed in the **From** and **To** columns next to the checkbox **4**.

The screenshot shows the 'Alert Profile' configuration for 'ZS4PPDS\_APP'. The 'Selection' tab is active, showing 'Selection of Location Products' with 'Location Products' set to 'S4PPDSL0C001'. Below this is the 'Selection Object' table:

Selection Parameters	✓	From	To	Value From	Value To
Selection Dimensions				PPS2 <b>3</b>	
Products				PPS3 <b>3</b>	
Locations					
Location Name <b>1</b>	<input checked="" type="checkbox"/>	PPS2 <b>4</b>		PPS4 <b>2</b>	
Location Type					
Planner					
Production Planner					
SNP Planner					
SNC Planner					

Figure 7.6 Location Material Selection Restriction in the Alert Profile



#### Tip

If multiple values are maintained for a selection (location or product), you'll see one value on the screen, and the selection parameter maintained (green checkmark) is set. Double-click on the row to see all the values maintained in the selection.

After entering the required selection conditions, click on the **Save Selection** button, and enter a name for the selection. The name of the selection is transferred back to the **Alert Profile** screen.

For the **ATP Categories**, similar selection conditions can be set to include or exclude certain receipt and requirement elements based on their ATP category. The selection of the ATP category set in the alert profile will be applied irrespective of the PP/DS tool in which the alert profile is used.

#### ■ Selection of Resources

Under **Selection of Resources**, you can maintain the restrictions for selection of resources considered for the alert types that are relevant to resources (e.g., average resource utilization).

After all the required settings are maintained, save the application profile in the Alert Monitor by clicking on the **Save** button. This application alert profile can be used in the PP/DS planning and scheduling tools.

In the **Attributes** tab of the alert profile, the basic attributes, such as the description of the alert profile, can be maintained. Other attributes are also displayed, such as the user who created and/or changed the alert profile and the creation and change time stamps.

After the alert profile is assigned to the overall profile as discussed in the next section, the **Overall Alert Profile Assignment** tab appears in the overall profiles to which the alert profile is assigned.

### 7.1.3 Create Overall Profile

To monitor the alerts from the Alert Monitor or to generate and send notifications to users for the PP/DS alerts, an overall alert profile must be created and assigned to all the relevant application alert profiles and additional settings. You can create the overall alert profile by following the steps to create an application alert profile (Section 7.1.2), but select the **Overall Profile** option in the **Create Alert Monitor Profile** popup, as shown in Figure 7.7. In the overall profile, maintain the **Planning Version** that will be used to determine the alerts, and assign the **Alert Profile** that will be used to calculate the alerts.

The period for which the alerts should be generated when determining the alerts in the background or from the Alert Monitor is defined in the overall profile. To define a relative period from the current date, select the **Relative Time Interval** radio button. Then select the period type (**Months**, **Weeks**, **Days**, or **Hours**), and define the duration. The **Offset** fields can be used to move the current period by the offset defined. For example, if **Months** is selected as the period, "3" is entered as the duration, and "-3" is entered as the **Offset**, the alerts will be calculated for the past three months and the future three months.

#### Note

The settings made in the overall alert profile are only used by the Alert Monitor when alerts are determined within the Alert Monitor. For other PP/DS applications (e.g., product view, detailed scheduling planning board, etc.), the application-specific alert profiles are selected, and the selection of planning version, materials, locations, resources, and time horizons are determined by the application to generate alerts based on the application-specific alert profile.

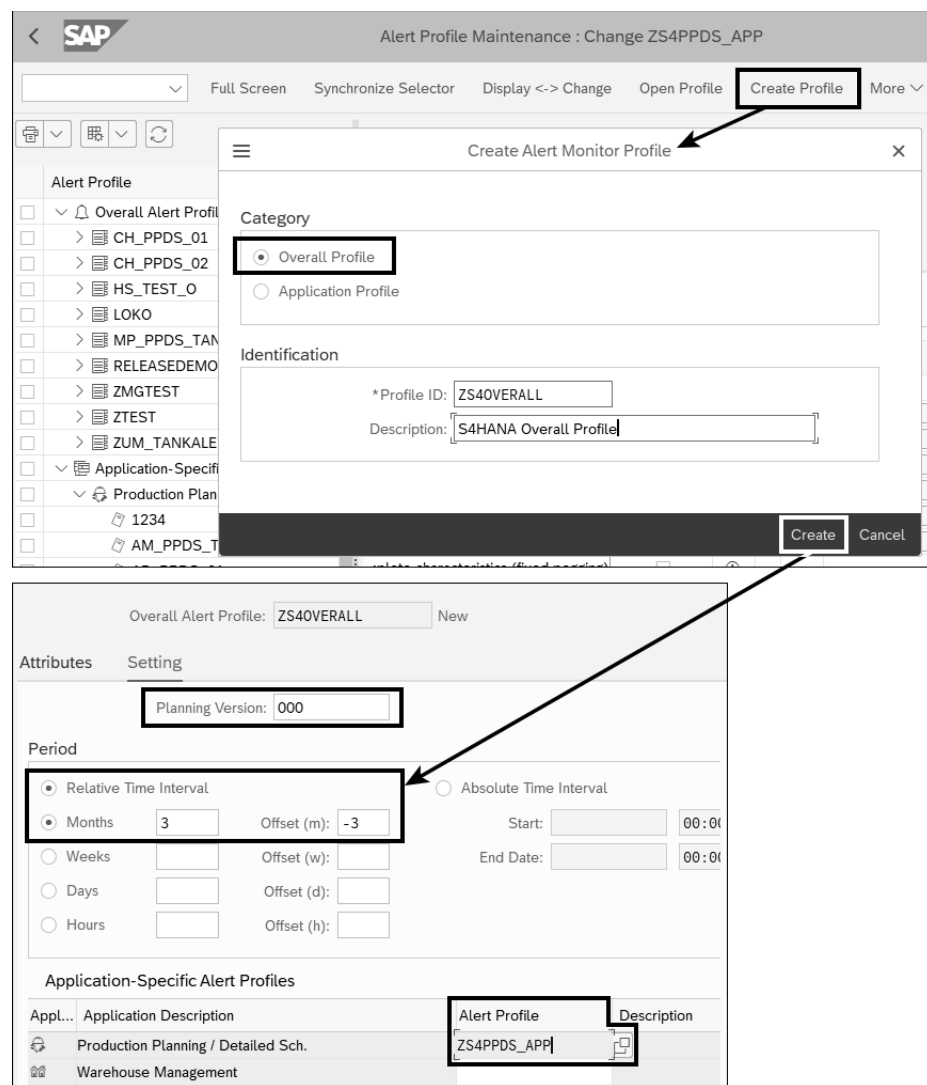


Figure 7.7 Creation of the Overall Alert Profile in the Alert Monitor

### 7.1.4 Transport Profiles

The overall profiles, alert profiles, and selection profiles created in the Alert Monitor can be transported to other systems in the system landscape. To do so, execute Transaction /SAPAPO/AMON1 to arrive at the **Alert Profile Maintenance** screen. You can generate transport requests using the **Transport Profile** button.

## 7.2 Alert Monitoring

You have a few different options when it comes to monitoring alerts using the Alert Monitor. In this section, we'll cover the monitoring of alerts from the Alert Monitor, alert generation in the background, and Alert Monitoring in PP/DS applications.

### 7.2.1 Monitor Alerts from the Alert Monitor

Overall alert profiles can be assigned to your user as favorites so that the alerts can be generated and monitored from the central alert monitoring (Transaction /SAPAPO/AMON3).

The favorites are managed from the Alert Monitor transaction (Transaction /SAPAPO/AMON1). To manage the favorite overall alert profiles, launch Transaction /SAPAPO/AMON1, and click the **Favorite Management** button (see Figure 7.8 1). In the **Alert Monitor Administration** popup, the **Manage Favorites** tab is opened by default. Select the overall alert profile from the right side of the selection window (**Worklist of Overall Profiles**), and move it to the left side (**Favorites**) using the arrow button, as shown in Figure 7.8. Click the **Save and Exit** button when you're done.

After doing this, when you launch the Alert Monitor (Transaction /SAPAPO/AMON3), you can select the favorite from the dropdown menu 2, and the system will determine and display all the alerts per the application profiles and the selection conditions maintained in the overall profile and the application profile.

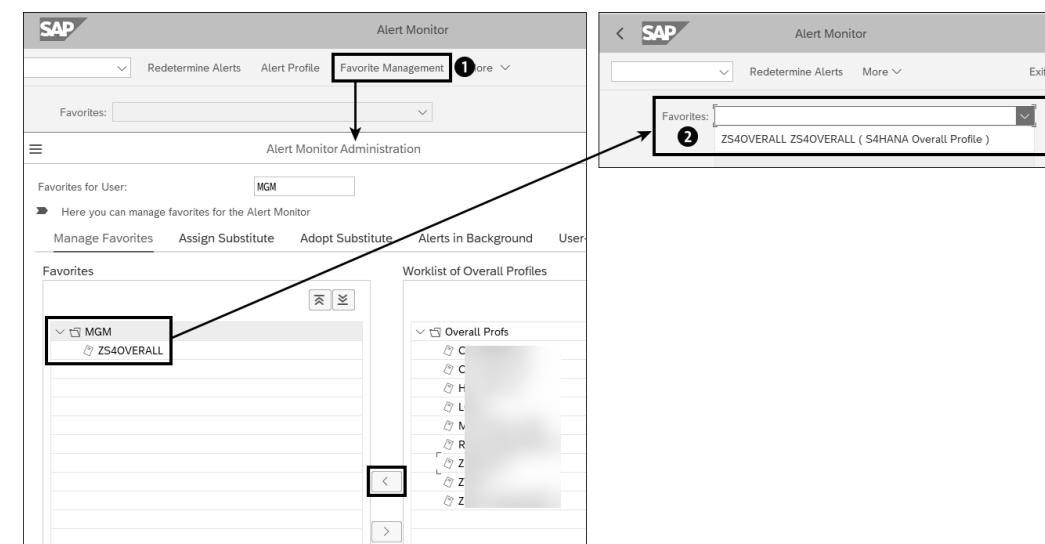
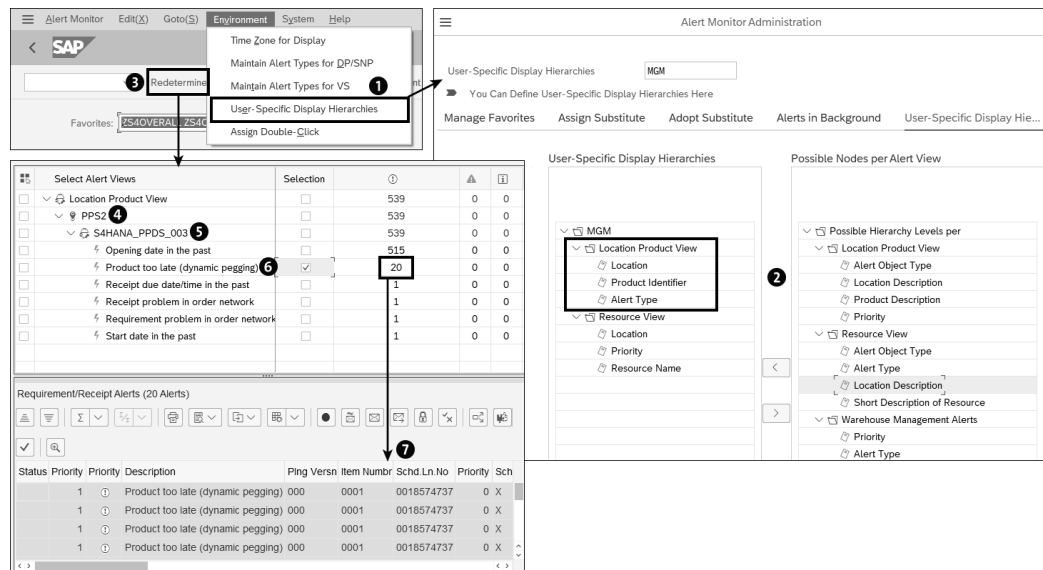


Figure 7.8 Alert Monitor: Managing Favorites

The Alert Monitor's display settings for the hierarchy in which the alerts are displayed can be customized from the user settings. From Transaction /SAPAPO/AMON3, choose

**Environment • User-Specific Display Hierarchies**, as shown in Figure 7.9 ❶. Select and move the fields from the **Possible Nodes per Alert View** to the **User-Specific Display Hierarchies** pane ❷ in the order in which you want the alerts to be displayed. Click on the **Redetermine Alerts** button in the initial screen of the Alert Monitor ❸, and the determined alerts per the overall profile are arranged per the hierarchy set in this setting. The number of alerts per hierarchy node—in this example, location **PPS2** ❹, product identifier **S4HANA\_PPDS\_003** ❺, and alert type **Product too late (dynamic pegging)** ❻—is displayed. You can click on the number of alerts to navigate to the alert details ❼.



**Figure 7.9** Alert Monitor Display Settings and Monitoring Alerts from the Alert Monitor

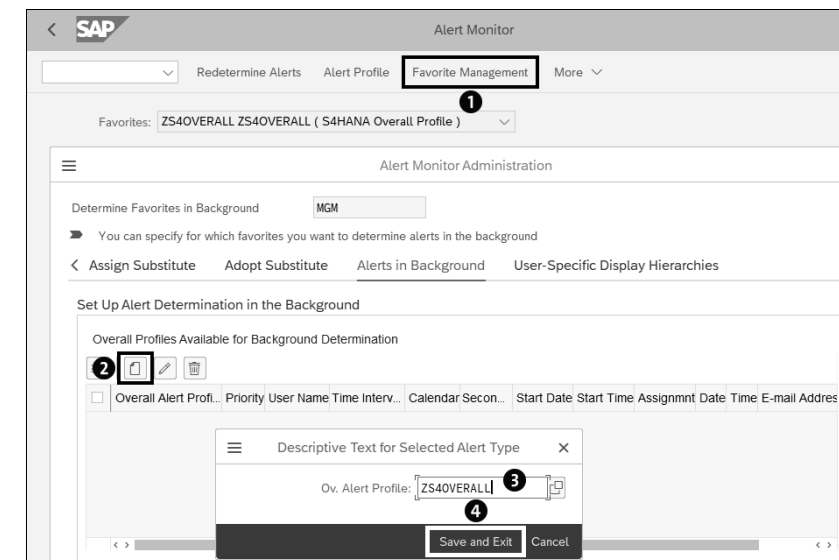
From the alert details shown in the **Alert Monitor** screen (see Figure 7.9), there are options to hide the alerts up to a certain duration. The alerts can be sent via email to email addresses. You can forward the alert to another user, and the forwarded alerts will be displayed in the receiving user's Alert Monitor. You can navigate to the product view transaction from the Alert Monitor to take actions on the alerts.

## 7.2.2 Generate Alerts in the Background

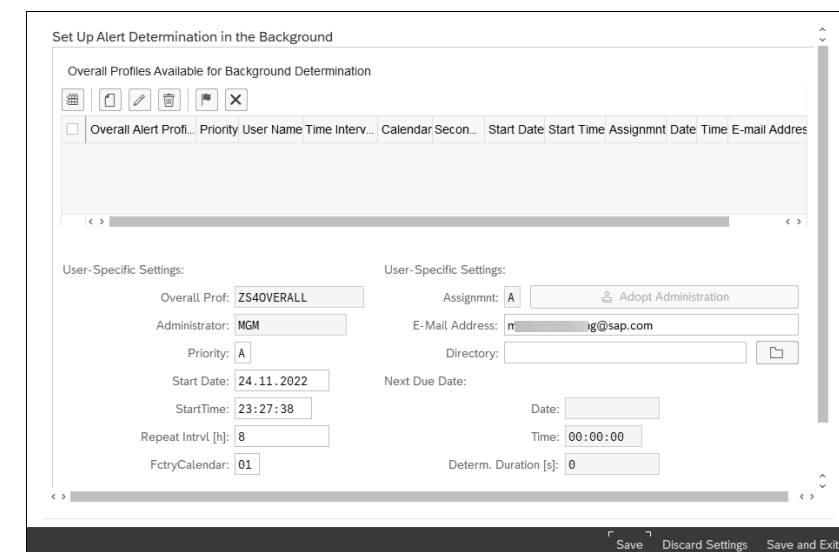
For alert profiles that are time intensive (with a lot of selection objects and many alert types activated in the alert profile), it's possible to generate the alerts in the background and display them to the users.

To set up the overall alert profiles for processing in the background, you use the Alert Monitor transaction (Transaction /SAPAPO/AMON1). As shown in Figure 7.10, click on the **Favorite Management** button, and navigate to the **Alerts in Background** tab ❶. In this screen, click the **New** button ❷, enter the **Ov. Alert Profile** ❸ for which the alerts are

to be determined in the background, and click the **Save and Exit** ❹ button. Then, in the bottom of the same screen shown in Figure 7.11, maintain the **Priority** for processing, **Start Date**, and **StartTime**. Enter the **Repeat Intrvl [h]** in which the background alerts are to be generated and the **FctryCalendar**, which is used to calculate the date and time of the frequency interval. If you want to trigger an email notification, enter an **E-Mail Address**. Click the **Save and Exit** ❹ button, and the list of alerts determined in the background will be sent via email to the recipient if an email address has been entered.



**Figure 7.10** Alert Determination in the Background: Setup



**Figure 7.11** Alert Determination in the Background: User-Specific Settings



After defining the settings for the background alert generation, you must schedule the background job with ABAP program /SAPAPO/READ\_ALERTS\_BATCH. The frequency of the schedule of this program should match the repeat interval maintained in the settings for the background alert generation. For example, if the frequency interval in the settings is defined as 4 hours, and the job /SAPAPO/READ\_ALERTS\_BATCH is scheduled only every 8 hours, the alerts in the background will only be generated every 8 hours.

The job looks for all background overall alert profiles that are due to be redetermined per their repeat interval and then regenerates the alerts for all such profiles. In the program screen, you can either select **All Due Overall Profiles** or specific **Selected Overall Profiles**, which can be defined in the selection screen shown in Figure 7.12. If you select the **Ignore Due Dates** checkbox, irrespective of the repeat interval defined in the alert profile background settings, alerts will be generated for all profiles.

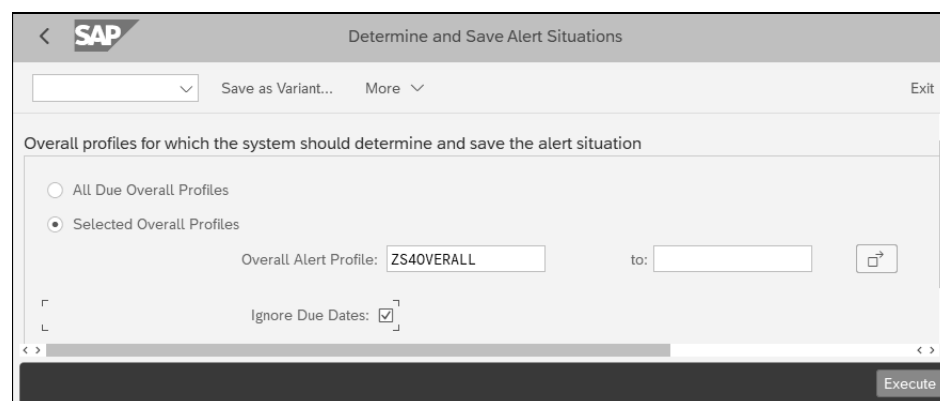


Figure 7.12 Alert Generation in the Background: Selection Options for the Batch Job

You can save the settings made in this screen as a variant by clicking on the **Save as Variant** button. Enter a **Variant Name** and a **Description** of the variant, and then save it by clicking on the **Save** button.

You can use the variant saved in the preceding step to schedule the background alert determination job with ABAP program /SAPAPO/READ\_ALERTS\_BATCH. After the background job determines the alerts, in the Alert Monitor transactions such as Transaction /SAPAPO/AMON1 or Transaction /SAPAPO/AMON3, there will be new options displayed on the screen next to the **Favorites** dropdown, which displays the list of all the profiles for which background generated alerts are available (see Figure 7.13 ❶). For one overall profile, only one set of determined alerts in the background is available at any point in time, and no historical data for the same profile is recorded. If another run of the alert determination is executed for the same overall profile, it will overwrite the results of the previous execution.

If there an email address maintained for the background alert generation, an email is also triggered with the alert details, as shown in Figure 7.13 ❷.

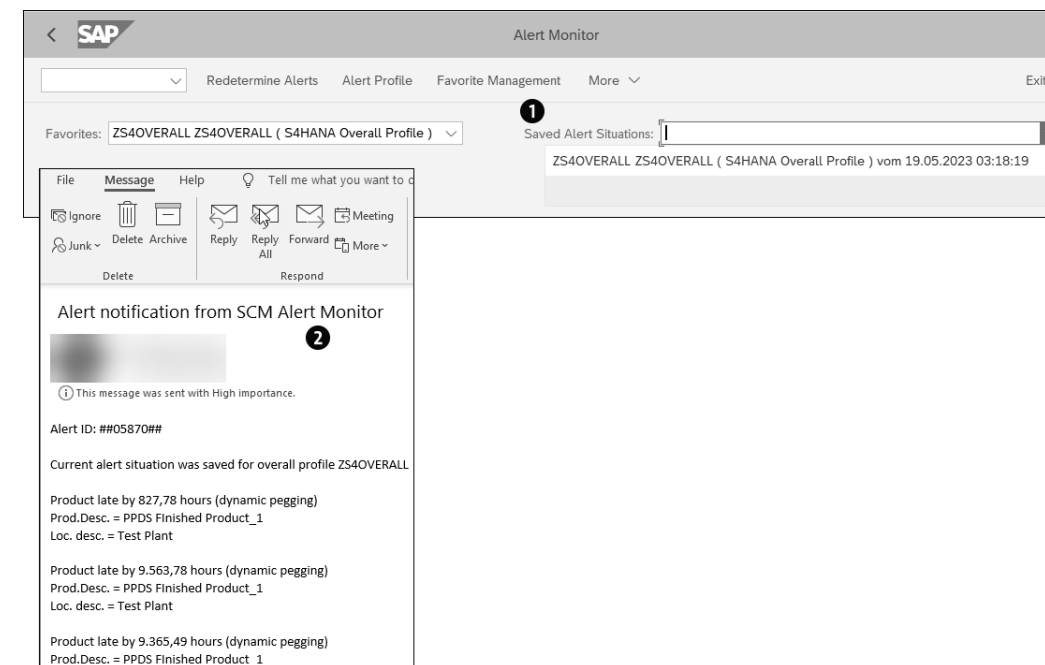


Figure 7.13 Monitoring the Results of Background Alert Generation

### 7.2.3 Monitor Alerts from PP/DS Applications

All the commonly used PP/DS applications support the Alert Monitor. The alert profile is assigned to the application profile of the corresponding application to generate the alerts.

#### Product View

In the product view (Transaction /SAPAPO/RRP3), the alert profile can be assigned from the initial screen of the transaction, as shown in Figure 7.14, by choosing **Settings • Alert Profile** ❶. Enter the **PP/DS Alert Pr.** name ❷, and click on the **Continue** ❸ button.

The alerts related to orders, dates, and quantities are displayed in the order views, that is, the product view, product overview, receipt, and requirement views. On the other hand, if there is an alert related to a resource capacity in which the product is manufactured, these alerts aren't displayed in the order views. The capacity-related alerts are only displayed in applications such as the detailed scheduling planning board or the resource planning table.

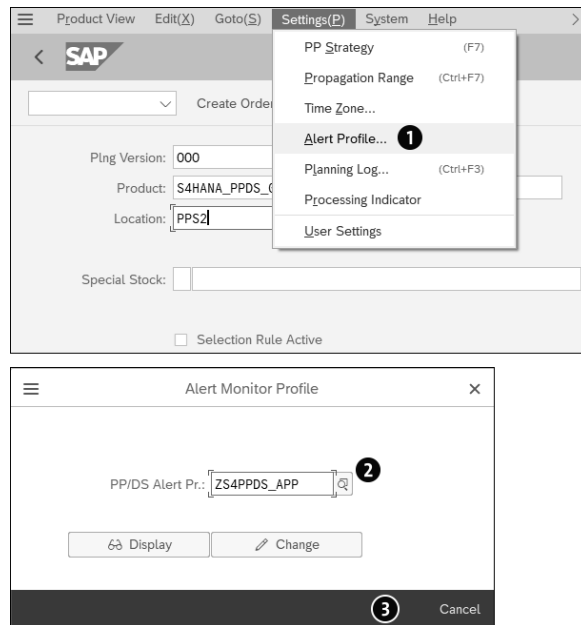


Figure 7.14 Changing the Alert Profile in the Product View

As shown in Figure 7.15, the alerts will be in the same rows of the orders for which the alerts are raised in the product view.

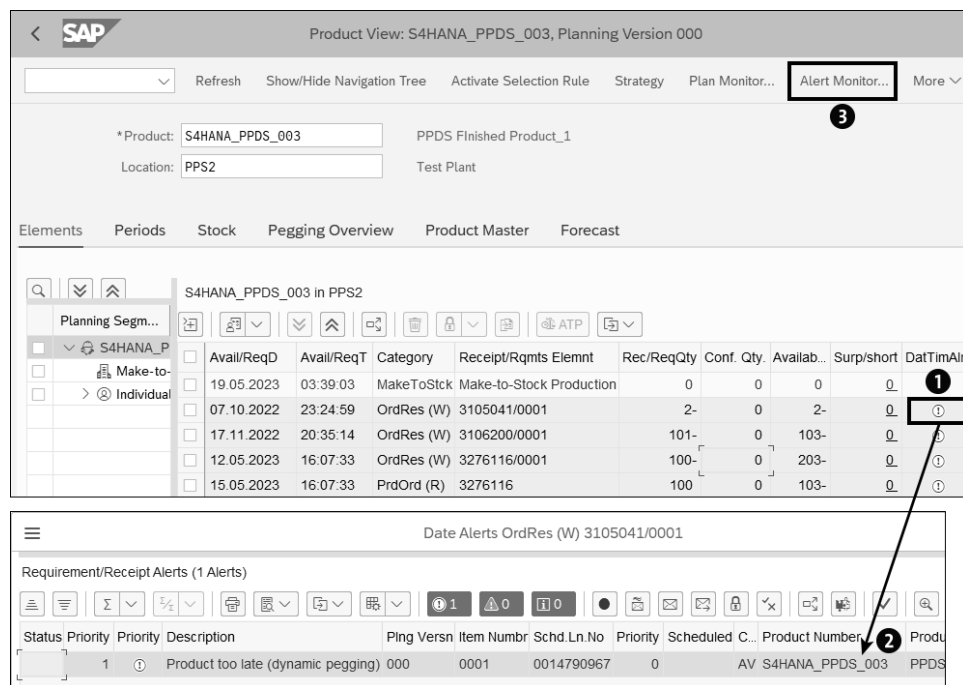


Figure 7.15 Alert Monitoring from the Product View

The **Qty Alerts** (quantity alerts), **DatTimAlrts** (date/time alerts), and **Netw.Alert** (network alerts) columns will display the corresponding alerts. In addition, from the product view, you can navigate to the Alert Monitor window to take any alert-specific actions (send emails or forward alerts to another user). You can either click on the alert icon ⓘ on the product view to see the details of the individual alerts ⓘ, or you can click on the **Alert Monitor** ⓘ button on the menu bar to display all the alerts for the product location selected in the product view.

**Product Overview**

Product overview (Transaction /SAPAPO/POV1) is an excellent tool for material planners to monitor the alerts centrally for quantity, date/time, and order alerts. Like the product view, you can set the alert profile in the settings from the selection screen, as shown in Figure 7.16. You can define the selection criteria, such as duration (**Planning Horizon**) for the selection, **Location**, **Product**, **Planner** group, and so on. In addition, there is a filter (**Extended Selection**) available in the selection screen of the product overview to filter only the materials with alerts.

After the selection options are entered as shown in the upper-left area of Figure 7.16, click on the **Execute** button to see the results screen of the product overview. This screen lists all the materials with alerts and has columns displaying the highest priority alert available for the material in the corresponding row, as shown in the lower portion of Figure 7.16. In addition, the **Max. Alert** column displays the highest priority of all alerts available for that material.

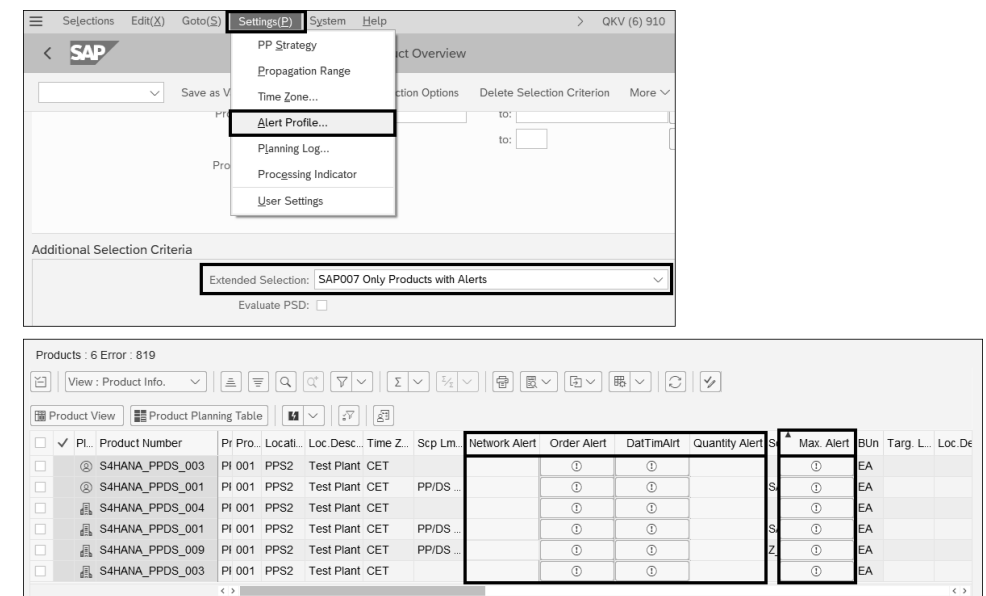


Figure 7.16 Monitoring Alerts from the PP/DS Product Overview

From the product overview, you can navigate to the product view by double-clicking on the **Product Number** to take actions to resolve the alerts.

It's also possible to filter the alerts within the product overview transaction. For example, when there are information, warning, and error alerts, and you want to filter the products with only error alerts for any quantity-related alerts, click on the **Filter Products** button ❶ on the screen, and click on the **Change Filter** option. In the resulting popup screen, deselect all the options except **Error** ❷ under the **Quantity** tab, also deselect the **Display of elements without problems** checkbox ❸, and then click OK ❹. Click on the **Filter Products** button again, and select the **Use Filter** option ❺. This will filter the quantity alerts column with only the error alerts ❻, as shown in Figure 7.17.

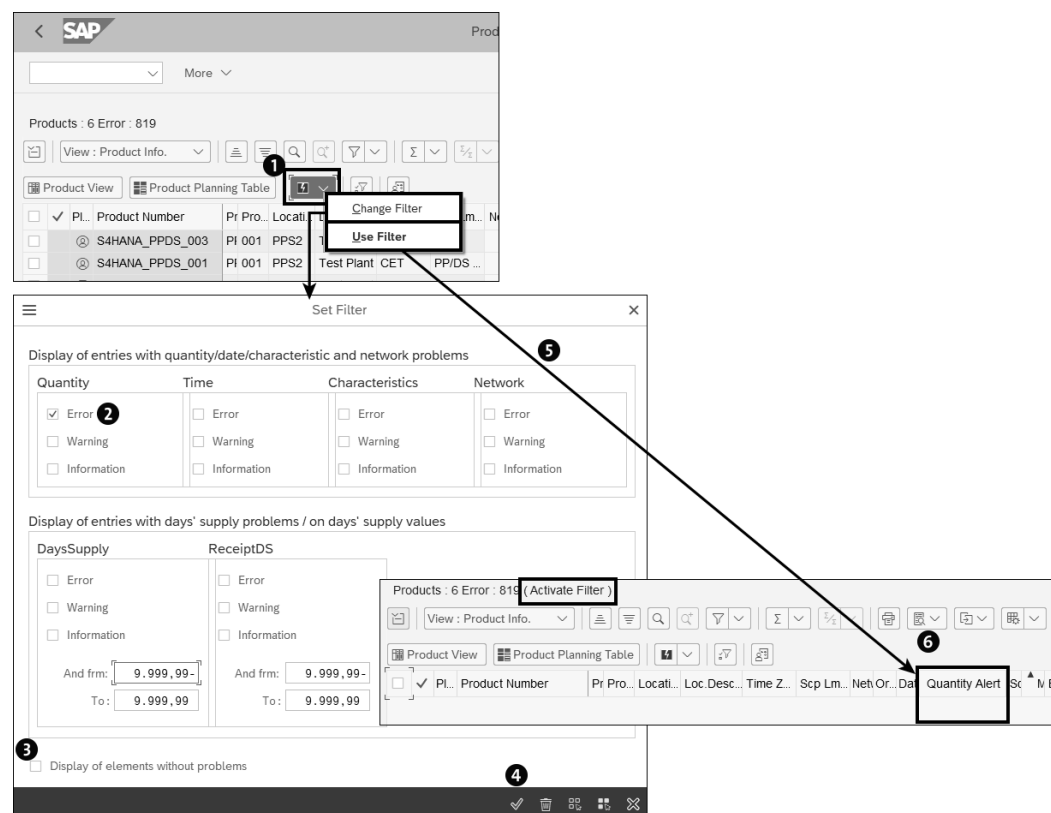


Figure 7.17 Filtering of Alerts in Product Overview

### Detailed Scheduling Planning Board

For monitoring alerts related to orders and capacities, you can use the Alert Monitor within the detailed scheduling planning board (Transaction /SAPAPO/CDPSO).

In the detailed scheduling planning board selection screen, click on the **Profiles** button, and navigate to the **More Profiles** tab in the popup. Enter the PP/DS application alert profile that will be used in the detailed scheduling planning board, and click the **OK**

button or press **[Enter]**. After the detailed scheduling planning board is loaded in the shuffler displayed on the left side of the screen, you can see the resource capacity-related alerts highlighted in the resource pool, as shown in Figure 7.18. To view the details of the resource alerts and the order alerts, click on the **Alert Monitor** button in the menu bar. This will load the Alert Monitor in a separate window where you can take alert-specific actions. From the detailed scheduling planning board, you can take actions to resolve capacity alerts by rescheduling orders to different dates, changing order quantities, and so on.

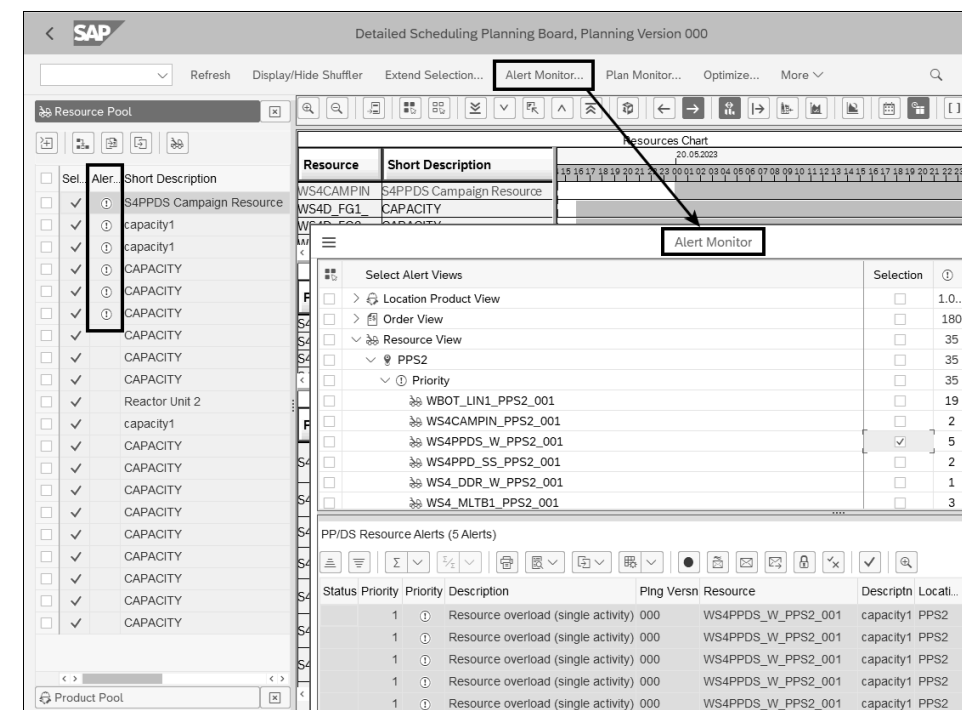


Figure 7.18 Alert Monitoring from the Detailed Scheduling Planning Board

In the menu options shown in Figure 7.19, you can select **Extras • Alerts Display**, which will calculate alerts for the individual order and operation elements displayed on the detailed scheduling planning board. Elements that have an alert will be animated with a blink (the color of the object will blink white ❶ and then back to the original color ❷ of the object). As this is very performance intensive, you can use this when there are very few objects loaded in the planning board.

#### Tip

The business add-in (BAdI) /SAPAPO/CDPS\_AMOFILT can be used to filter the products or orders on specific resources.

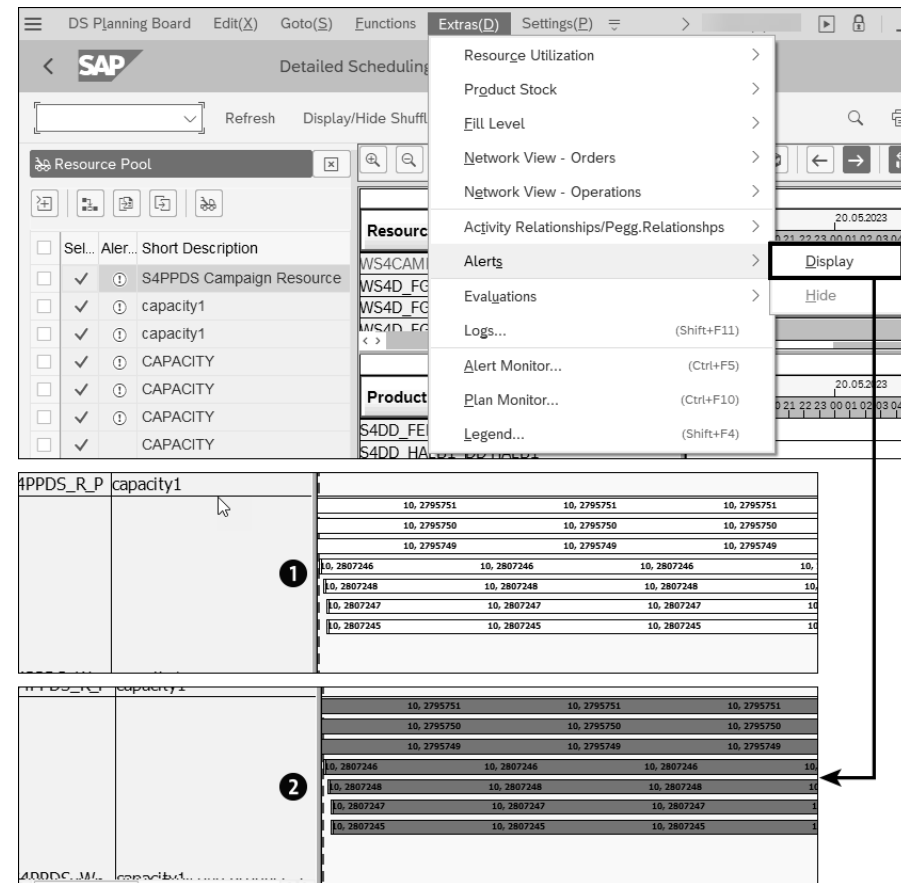


Figure 7.19 Activating Graphical Alert Monitoring in the Detailed Scheduling Planning Board

### Product Planning Table

The product planning table (Transaction /SAPAPO/PPT1) is another tool that consists of many other planning and scheduling tools such as the detailed scheduling planning board, periodic product view, and so on, including the Alert Monitor.

In the initial screen of the product planning table transaction, as shown in Figure 7.20, select **Settings • Alert Profile** from the menu bar, and enter the alert profile in the **PP/DS Alert Pr.** field in the popup **1**. Then enter the required selection criteria for the planning table such as location, product, and so on, and execute the transaction. In the resulting screen, select the **Alert Monitor** chart **2** to load the Alert Monitor **3** on the screen. In addition, on the left side of the screen, you'll see the hierarchical representation of the products and the corresponding alerts displayed **4**. Click on any of the products in the list to see the details of the alerts for that specific product.

Click on the **Alert** button **5** on the alert chart to filter alerts by alert types. By clicking on the **Display All** **6** button, all alerts for the selection provided in the initial screen of the product planning table are listed.

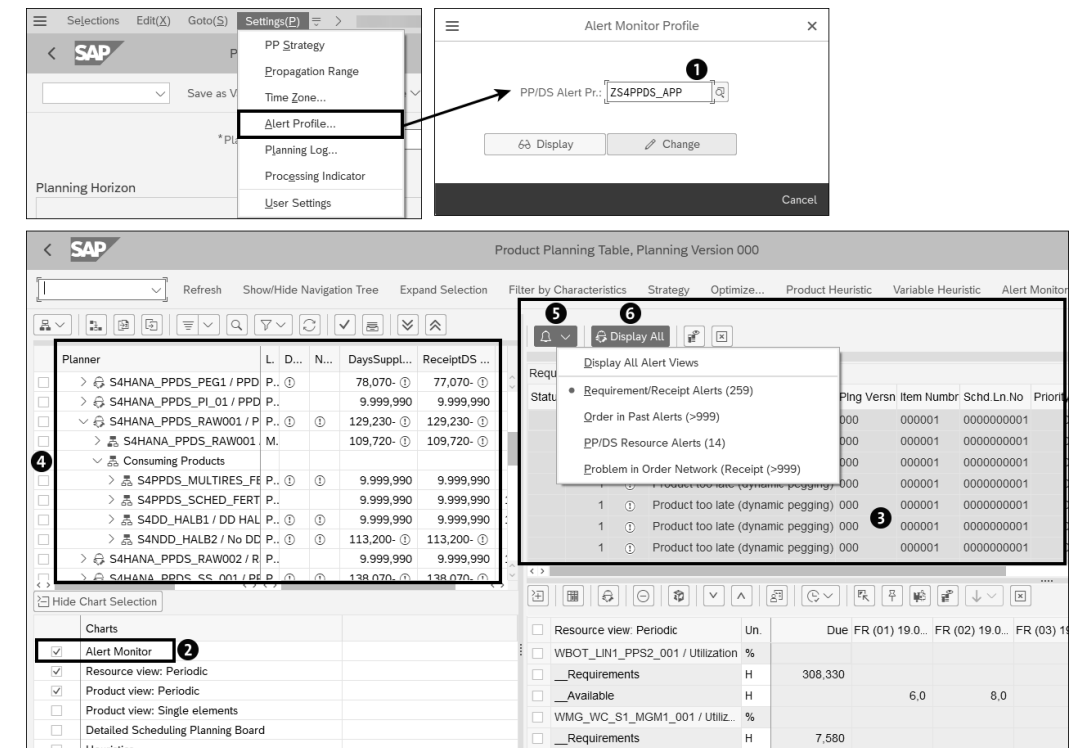


Figure 7.20 Alert Monitoring from the Product Planning Table (Transaction /SAPAPO/PPT1)

### Resource Planning Table

The PP/DS resource planning table (Transaction /SAPAPO/RPT) is a tabular capacity planning and scheduling tool. The alerts displayed in the resource planning table are like the ones displayed in the detailed scheduling planning board (Transaction /SAPAPO/CDPSO), but in the resource planning table, the alerts can also be displayed on individual time buckets such as shifts, days, weeks and so on, for capacity-related alerts.

As shown in Figure 7.21, within the resource planning table, click on the **Settings** button **1**, and enter the alert profile to be used by the system to calculate the alerts. The resource- and capacity-related alerts are displayed in the list of resources loaded **2** and on the individual time buckets where such an alert **3** is raised. By clicking on the **Alert Monitor** button **4**, all relevant alerts, including the quantity, date, and resource/capacity alerts, are shown in a popup window **5**.

The screenshot shows the SAP Resource Planning Table (RPT) interface. The main window displays resource utilization for resource WS4PPDS\_W\_PPS2\_001. A secondary window, 'Alert Monitor', is open, showing a table of alert views and a list of alerts. The alerts list shows four alerts with the description 'Product too late (dynamic pegging)'. The 'Alert Monitor' window also shows a table for selecting alert views, with 'S4HANA\_PPDS\_003' selected.

Select Alert Views	Selection			
Location Product View	<input type="checkbox"/>	243	0	0
PPS2	<input type="checkbox"/>	243	0	0
S4HANA_PPDS_001	<input type="checkbox"/>	239	0	0
S4HANA_PPDS_003	<input checked="" type="checkbox"/>	4	0	0
Order View	<input type="checkbox"/>	82	0	0
Resource View	<input type="checkbox"/>	5	0	229

Status	Priority	Priority	Description	Ping Versn	Item N
1	0	0	Product too late (dynamic pegging)	000	0001
1	0	0	Product too late (dynamic pegging)	000	0001
1	0	0	Product too late (dynamic pegging)	000	0001
1	0	0	Product too late (dynamic pegging)	000	0001

Figure 7.21 Alert Monitoring from the Resource Planning Table (Transaction /SAPAPO/RPT1)

### 7.3 Summary

In this chapter, we covered the significance of the Alert Monitor in embedded PP/DS. We also discussed the steps to set up the alert profiles and the various options to monitor the alerts from the Alert Monitor, alert generation in the background, and alert monitoring from various PP/DS applications and tools.

So far in the previous chapters, we've covered all the major functionalities and features in embedded PP/DS. In the next chapter, we'll explore some special or advanced scenarios and functionalities that can be handled in embedded PP/DS.

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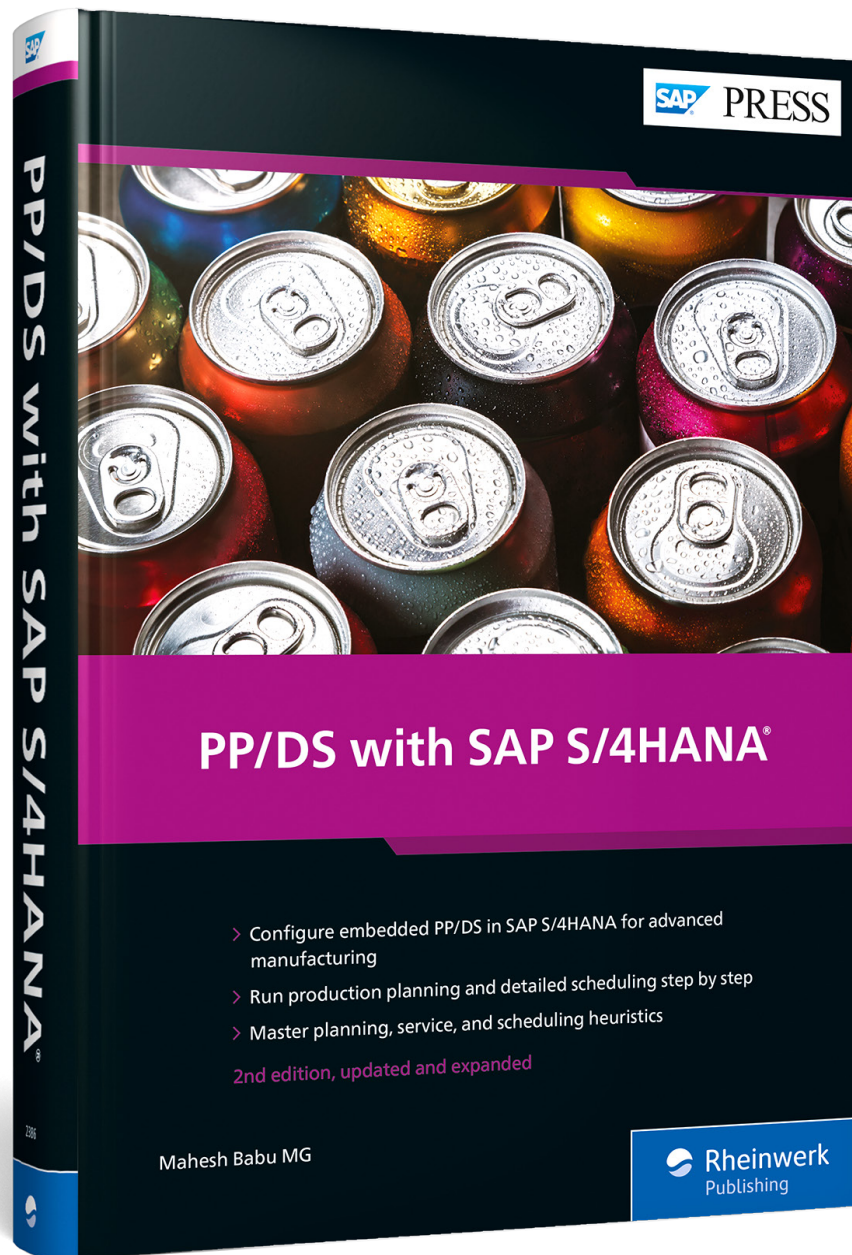
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Mahesh Babu MG

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