

SAP Ariba /

Feature at a Glance Supply Chain Monitor

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Introducing: Supply Chain Monitor

Customer challenge

- Buyers need a set of tools to monitor potential disruption risks to their supply chain.
- Planners need a single place where to see all potential threats.
- Individual users and buyer organizations had very limited tools to govern alerts and take actions.
- Today on Ariba Network, there is no single dashboard to help buyers see the alerts and take action.

Solution area

SAP Ariba Supply Chain Collaboration

Meet that challenge with SAP Ariba

With this feature, buyers can use the Supply Chain Monitor dashboard to configure and manage alerts. This feature includes:

- Order confirmation alerts, forecast alerts and SMI alert details page that lets buyers easily assess and compare different alerts.
- Filters that let buyers define the desired deviation exceptions to report.
- Monitoring of quality notification by suppliers and materials.
- A cumulative supply demand graph for supplier, material, and plant combination in a given time frame.

Implementation information

With the exception of Order confirmation alerts, Forecast alerts and Inventory alerts tiles, the Supply Chain Monitor functionalities are **automatically on** for all customers with the applicable solutions, **subject to customer configuration**.

To activate the above mentioned alerts tiles, please have your Designated Support Contact (DSC) submit a **Service Request (SR).**

Ease of implementation _____ Low to Geographic relevance Global

Low touch / simple Global

Experience key benefits

- The feature helps buyers and planners with a fine-tuned alerting mechanism to identify potential risks and take corrective measures across different processes.
- The feature provides users a flexible framework to define how alerts are generated, and a details page to see the details of deviations across processes.

Prerequisites and Restrictions

- The buyer user is granted Buyer Dashboard for Supply Chain Collaboration as well as settings permissions, to permit changes to Supply Chain Monitor administration settings by Buyer admin
- Alternate cXML document routing is enabled for at least one supplier.
- Date deviations alert types are not generated for purchase order line items with multiple schedule lines.
- Excel download is not available for alert type details pages.
- Date deviations alerts might be generated in error due to time zone differences.
- The total count of alerts for a given buyer organization cannot be more 1 million alerts across all alert types.
- If the count of alerts doesn't surpass the 1 million still the alerts will be automatically deleted three months after the alert generation date.

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Supply Chain Monitor provides a fine-tuned alerting mechanism for planners, to immediately identify exception situations and gather all the data necessary to resolve them. The solution provides:

- Updated and improved user interface
- Automatic generation of alerts for order confirmation, forecast, and inventory exceptions with extensive settings and filters
- **Charts and reports** to quickly collect information on materials and suppliers based on forecast, order, and quality notification data
- **Visibility** based on areas of interest at company level as well as buyer level, as well as user rights
- Clickthrough from alerts to the PO whose line item generated a specific alert
- Alerts are automatically cleared 90 days after they are created (if not already cleared by the buyer).
- The total count of alerts for a given buyer organization will be capped to 1 million alerts across all alert types and older one's will be automatically deleted.
 - In case a buyer org generates more alerts, the oldest alerts will be automatically deleted to get back to the max amount of 1 million.



Admin and user settings overview

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Permissions to be activated by the buyer admin, to provide users with access to relevant dashboards within Supply Chain Monitor

Buyer Dashboard For Supply Chain Collaboration

Access to Buyer Dashboard in Supply Chain Collaboration

Buyer Dashboard For Supply Chain Collaboration – This is the basic permission needed to see the dashboard itself. This does not allow you to see any specific content, but is a core permission for Supply Chain Monitor.

Forecast Visibility

Access to forecast and commit visibility

Forecast Visibility – In addition to core permission, this permission will help in activating forecast visibility for the buyers.

Planning Collaboration Visibility

Access to planning collaboration visibility

Planning Collaboration Visibility – In addition to core permission, this helps in activating the SMI process-related visibility for buyers.

Inbox and Order Access

View and search documents in Inbox and take actions based on your role

Inbox and Order Access – This permission helps in activating the content for purchase order confirmations.

Supply Chain Monitor Settings Administration

Configure when alerts are created

Supply Chain Monitor Settings Administration – This permission is mainly for the admin team, to define parameters for alert generation across every process. The admin team needs this permission to modify limits for alerts. In general, alerts are not generated for every deviation. Customers can set up the limits based on business process requirements.

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Administrators and users with specific permissions can define the parameters to generate the alerts, and users can define the content that is displayed on the UI based on the role.

Define Views

- 1. Users can view administrative settings from the settings menu. Users with Supply Chain Monitor Settings Administration permission are able to edit the rules.
- 2. Users can see the current settings and the name and date for the previous maintained settings.
- 3. Settings here determine how alerts are generated for individual sections/tiles. **NOTE**: These settings determine how alerts are generated for the buyer organization and all of its buyer users.

Adr	Cancel	Save		
The	se settings are configured by a buyer organization's administrator and control when alerts are created for different exception types.			
>	Forecast exceptions	Last changed	MargheBuyer1,	August 3, 2018
>	Purchase order confirmation exceptions	Last changed	MargheBuyer1,	August 3, 2018
\sim	Supplier managed inventory exceptions	Last changed	MargheBuyer1,	August 3, 2018

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4. Users can define and control the view of the Supply Chain Monitor tiles and relevant tiles will be displayed in Supply Chain Monitor page, based on the settings. Options will depend on entitlement.

							\$
							Administrator Settings
							Show these exception groups and charts
HOME INBOX OUTBOX QUALITY	PLANNING CATALOGS	SUPPLIER ENABLEMENT ADMINISTRA	tion reports upload/down	.OAD MORE v			You have order confirmation approvals due
Dashboard Supply Chain Monitor						N	Confirmation alerts
Supply Chain Monitor					0	\square	Forecast alerts
You have order confirmation approvals due 0						ŕ	Inventory alerts
							Quality notification
							Cumulative supply and demand
							Exceptions groups include multiple alert types and provide visibility into events in planning, replenishment, and order fulfillment. You can configure filters at the alert level to control the data displayed.

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Once the relevant permissions are set, buyers can see Supply Chain Monitor. It is accessed on the buyer side of Ariba Network at the Home \rightarrow Supply Chain Monitor tab. Content tiles are enabled based on the permissions and settings.



Purchase Order Confirmation Exceptions

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Purchase order confirmation exceptions – admin settings

- Quantity deviation Generated when a confirmed quantity is differs from roll-up quantity at line-item level (confirmation is summed for all confirmed quantity for multiple schedule lines or deliveries for a given line item). Buyers can define what tolerance threshold to accept. If there is upper or under variance of % more than defined, an alert is generated.
- 2. Date deviation Generated when the confirmed delivery date differs from the requested delivery date at line-item level. A requested delivery date specified at line-item level is needed to generate this alert. If no line-item level requested delivery date is specified, no alert is generated. Feature is not applicable for schedule-line level
- 3. **Missing confirmations** Creates alerts within a specific time period before the requested delivery date, before the requested ship date, or after the order was published.



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Purchase order confirmation exceptions – admin settings



*Note: Quantity deviation and date deviation settings are independent from order confirmation tolerances.

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Purchase order confirmation exceptions – admin settings



Before requested delivery date option

Example: If this option is selected, set to 5 days, and the requested delivery date is Aug 10th, an alert is created on Aug 5th if no confirmation was received by that time.

Before requested ship date option

Example: If this option is selected, set to 5 days, and the requested ship date is Aug 10th, an alert is created on Aug 5th if no confirmation was received by that time.

After purchase order publication date option

Example: If this option is selected, set to 5 days, and the purchase order is sent on Aug 10th, an alert is created on Aug 15th if no confirmation was received by that time.

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Confirmations alerts tile personalization – user settings

	Choose content to be displayed on alerts tile.
Confirmation alerts	Show these alerts Confirmation quantity deviations Confirmation date deviations Missing Confirmations
3 Confirmation quantity	Define filters. Configure your alerts Confirmation date deviations Use these filters to control the data displayed in your alerts. You can use the same selections for all alerts in this exceptions group or configure your alerts type.
 3 Confirmation date deviations 5 Missing Confirmations 	Requested delivery date Requested delivery date Include deviations with requested delivery date within this time period: Up to this number of days before or after today Within this date range Start date 06/13/2018 End date 06/22/2018
	Data filters > Location All > Part number All Cancel

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Confirmation alert filters – user settings

		Filters can be set for each individual alert.
Configure your alerts Confirmation	date deviations	
Use these filters to control the data displayed in your all alerts in this exceptions group or configure your selection	erts. You can use the same selections for all one of the same selections for all one of the same selections of the same selection of	
	Restore to defaults	Each filter parameter can be applied to all other order confirmation alerts.
Requested delivery date	✓ Apply to all alerts in this exception group	
Include deviations with requested delivery date within the	is time period:	
Up to this number of days before or after today	> 52	
Within this date range		
Start date 06/13/2018		
End date 06/22/2018		
Data filters		
 ✓ Location All 		For the Location, Part Number, Product Group, and Supplier filters, the user can choose to include or exclude specific values from the alerts
Exclude		displayed. Up to 10 values can be selected.
	Apply to all alerts in this exception group	
	Þ	
	Cancel Save	

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Confirmation Exception Alerts Details Page

- 1. Users can configure the view and columns that are displayed for the alerts.
- 2. Users can select and clear alerts, to remove them from the list. The list is cleared for entire organization.
- 3. Users can export the list of alerts as CSV.
- 4. Users can navigate to POs and confirmations from the screen.
- 5. Users can navigate to each document. Clicking "Done" returns users to the Supply Chain Monitor home page.

	K	Confirmation Exceptio	ns											
	Cont	irmation date deviations	\checkmark											
													1	Export CSV
Confirmation alerts •••										Quantity			Delivery Date	
		Date alert created	Supplier	Purchase order no.	Order confirmation no.	Line item no.	Part no.	Unit of measure	Requested	Confirmed	Difference	Requested	Confirmed	Difference
		2018-07-30	SK Enterprise	4500091364	CONF#91364	10	PROC-DC-PC-0063	EA	100	100	0	2018-07-15	2018-07-31	15
		2018-08-31	SK Enterprise	4500100087	CONF#100087	10	PROC-DC-PC-0063	EA	10	10	0	2018-08-30	2018-09-03	4
68		2018-09-14	SK Enterprise	4500102780	FU40ghpwsajth	10	PROC-FU-0001	EA	10	10	0	2018-09-13	2018-09-16	2
		2018-09-20	SK Enterprise	4500104096	CONF#104096	10	PROC-DC-CP-2070	EA	10	10	0	2018-09-20	2018-09-26	6
		2018-10-15	SK Enterprise	4500104097	SK097	10	PROC-DC-CP-2070	EA	10	10	0	2018-09-20	2018-10-16	26
1 Confirmation quantity deviations		2018-10-16	SK Enterprise	4500108793	FFU_aljf	10	PROC-MC-ID-5000	EA	4	4	0	2018-10-15	2018-10-18	2
15 Confirmation date deviations		2018-11-15	SK Enterprise	4500114387	con#4387	10	PROC-DC-PC-0063	EA	10	10	0	2018-11-14	2018-11-22	7
52 Missing Confirmations		2018-11-15	SK Enterprise	4500114378	conf#4378	10	PROC-DC-PC-0063	EA	10	10	0	2018-11-14	2018-11-22	7
		2018-11-16	SK Enterprise	4500114524	conf#4524	10	PROC-DC-PC-0063	EA	10	10	0	2018-11-15	2018-11-23	7

Forecast Exceptions

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Forecast exceptions – admin settings

Admin users can define the rules to generate forecast alerts. The following alerts are generated for forecast, based on the settings:

- 1. **Missing commits** This alert is generated if a commit is not made after the defined forecast was published.
- 2. **Commit shortage** This alert is generated after system refers to each week of forecast where the buyer receives a commit, but the commit is lower than forecasted. Quantities taken into consideration are the forecast for a given week vs. the commit for a given week.
- 3. Decommits When a supplier creates a commit for given week and later decreases it, a decommit alerts is generated. Even if it is not a shortage for the buyer, but is a decommit based on an earlier number submitted by the supplier, the system takes this into consideration for buyer visibility.

	,	Dashboard Supply Chain Monitor	
Administrator Settings		Administrator Settings	
You have order confirmation approvals due		These settings are configured by a buyer organization's administrator and control when alerts are created	ed for different exception type
Confirmation alerts		✓ Forecast exceptions	
Forecast alerts Inventory alerts		Missing commits	
Quality notification		Create alerts if commits are not received within this time period after the forecast was sent, in number of days:	5
Cumulative supply and demand		Commit shortages	
Exceptions groups include multiple alert types and provide visibility into events in planning, replenishment, and order fulfillment. You can		Create alerts for commit shortages occurring within this time period, in number of weeks:	12
data displayed.		Decommits	
	1	Create alerts for decommits occurring within this time period, in number of weeks:	12

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Forecast exceptions – admin settings

Commit shortages Generated when the committed quantity is lower than forecast quantity. *Note*: Alerts are generated for each week in which there is a shortage Missing commits Decommits 5 Create alerts if commits are not received within this time period after the forecast Generated when the supplier decreases a committed quantity for a was sent, in number of days: given week, compared to the previous commitment. Commit shortages 12 Create alerts for commit shortages occurring within this time period, in number of *Note*: Alerts are generated for each week in which the supplier decreases weeks: the quantity. Decommits 12 Create alerts for decommits occurring within this time period, in number of weeks:

Missing commits

Generated when, after a predefined waiting period, no commitment has been received for a given forecast.

Note: Alerts are generated for each uncommitted forecast (product activity message) sent to the supplier.

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Forecast exceptions – user settings



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Forecast exception filters – user settings Filters can be set for each individual alert. Configure your alerts | Commit shortages Use these filters to control the data displayed in your alerts. You can use the same selections for all alerts in this exceptions group or configure your selections differently for each alert type. Restore to defaults Each filter parameter can be applied to all other order confirmation alerts. Show only within lead time Apply to all alerts in this exception group Occurring Apply to all alerts in this exception group Within this time period "Show only within lead time" filters, according to whether days between the current day Weeks 12 and the Start date of the alert are \leq days of the lead time of the alert. Within this date range Start date End date **Data filters** Time range filter, to display only alerts within a week that intersects the range selected. ✓ Planner code Note: If either the beginning date or the end date of the alert's week of impact is within \bigcirc All the set range, an alert is displayed. Include Exclude For the Planner Code, Location, Part Number, Product Group, and Supplier filters, the user can choose to include or exclude specific values from the alerts displayed; up to 10 values can be Apply to all alerts in this exception group selected. > Location All Cancel Save

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Forecast exceptions alerts details page Values in the Forecast column link to the forecast details view of the corresponding part. Commit shortages \sim Export CSV Location Alert created date Supplier Part no. Days lead time Week of exception Weeks to impact Forecast Commit Difference Cumulative forecast Cumulative commi Cumulative difference 2018-07-13 **BUYPART-DECOMMIT-1** 001C (Plant-Sunnyvale-5) 2018-07-16 0 100 25 75 200 25 175 Test Supplier 1 7 2018-07-23 10 2018-07-23 0 200 200 50 150 Test Supplier 1 FZ-SMI-BPART DS-1678 (PA - Plant1) 50 150 L, Clear ≪ Page 1 ▼ ≫

Select an alert then click Clear to delete it. *Note*: The alert is cleared for entire organization.

Supplier Managed Inventory Exceptions

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Supplier Managed Inventory exceptions – admin settings

- 1. Out of stock: System will consider projected stock for both standard SMI or RO. If the weekly quantity is either 0 or less than 0, an alert is generated.
- 2. Above maximum: Alert if projected stock is above maximum in defined time period.
- 3. Below minimum: Alert if projected stock falls below minimum in defined time period.
- 4. **Replenishment orders out of tolerance**: If the projected stock is outside the range of defined minimum or maximum stock levels, after the replenishment order is posted by the supplier. The quantity considered is aggregated at the weekly level.

		Dashboard Supply Chain Monitor
		Administrator Settings
	Administrator Settings	These settings are configured by a buyer organization's administrator and control when alerts are created for different exception types.
	Show these exception groups and charts	> Forecast exceptions
	Vou have order confirmation approvals due	Durchase order confirmation exceptions
	Confirmation alerts	
	✓ Forecast alerts	 Supplier managed inventory exceptions
	✓ Inventory alerts	Out of stock
	Quality notification	Create alerts if projected stock will fall to zero within this time period, in number of weeks:
	Cumulative supply and demand	Above maximum
	Exceptions groups include multiple alert types and provide visibility into events in planning, replayshment and order fulfillment. You can	Create alerts if projected stock will rise above the maximum level within this time period, in number of weeks:
	configure filters at the alert level to control the	Below minimum
		Create alerts if projected stock will fall below the minimum level within this time period, in number of weeks:
		Replenishment orders out of tolerance
e com	pany. All rights reserved. CONFIDENTIAL	Create alerts if replenishment orders will fall outside the minimum or maximum stock levels within this time period, in number of weeks:

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Supplier Managed Inventory exceptions – admin settings

When a product activity message, product replenishment message, or sales order is sent and an individual planning item has a combination of **Out of Stock**, **Below Minimum**, and **Above Maximum** deviations in different weeks, only one alert is generated for that item. That alert is based on the following priority ranking: **Out of Stock** alerts, **Below Minimum** alerts, **Above Maximum** alerts.

12

12

12

12

\vee Supplier managed inventory exceptions

Out of stock

Create alerts if projected stock will fall to zero within this time period, in number of weeks:

Above maximum

Create alerts if projected stock will rise above the maximum level within this time period, in number of weeks:

Below minimum

Create alerts if projected stock will fall below the minimum level within this time period, in number of weeks:

Replenishment orders out of tolerance

Create alerts if replenishment orders will fall outside the minimum or maximum stock levels within this time period, in number of weeks:

Define how many weeks into the future should be considered to generate an alert.

Example: When set to 5 weeks, when a new product activity message, product replenishment message, or replenishment order is sent, only the first 5 weeks of projected data are evaluated to identify the relevant alerts.

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Supplier Managed Inventory exceptions – user settings

Configure your alerts Use these filters to control the data displayed in your alerts. You can use the same selections for all alerts in this exceptions group or configure your selections differently for each alert type.	Filters can be set for each individual alert.
Show only within lead time Apply to all alerts in this exception group	Each filter parameter can be applied to all other order confirmation alerts.
Occurring Apply to all alerts in this exception group	
 Within this time period 52 Weeks 	"Show only within lead time" filters according to whether the days between the current day and and the Start date of the alert is ≤ the days of lead time of the
Within this date range	alert.
Start date 08/03/2018	
End date 08/03/2018	Time range filter, to display only alerts within a week that intersects the range selected.
Data filters Planner code All	<i>Note</i> : If either the beginning date or the end date of the alert's week of impact is within the set range, an alert is displayed.
Include Exclude Apply to all alerts in this exception group	For the Planner Code, Location, Part Number, Product Group, and Supplier filters, the user can choose to include or exclude specific values from the alerts displayed. Up to 10 values can be selected.
> Location All	

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Supplier Managed Inventory exceptions details page

	Inventory Exception	ons				Project corresp	ed stock o oonding pa	column lin art.	iks to t	he plar	ning detail	s view of
Out	of Stock	\checkmark										
											Export CSV	
	Date alert created	Supplier	Part no.	Location	Days lead time	Week of exception	Weeks to impact	Projected stock	Min. stock	Max. stock	Stock On Hand	
	2018-08-02	MargheSupplier1	MMPart6	PL106 (PA - Plant6)	10	2018-09-10	5	-10	100	200	0	
	2018-08-02	MargheSupplier2	MMPart7	PL106 (PA - Plant6)	18	2018-09-17	6	-130	100	200	0	
	2018-08-02	MargheSupplier2	MMPart7	PL106 (PA - Plant6)	18	2018-09-24	7	-230	100	200	0	
	2018-08-02	MargheSupplier2	MMPart7	PL106 (PA - Plant6)	18	2018-10-01	8	-330	100	200	0	
	2018-08-02	MargheSupplier2	MMPart7	PL106 (PA - Plant6)	18	2018-10-08	9	-430	100	200	0	
	2018-08-02	MargheSupplier1	MM5	1010105 (PA - Plant6)	10	2018-10-15	10	-2230	100	200	0	
	2018-08-02	MargheSupplier2	MMPart7	PL106 (PA - Plant6)	18	2018-10-15	10	-530	100	200	0	
	2018-08-02	MargheSupplier1	MMPart6	PL106 (PA - Plant6)	10	2018-10-15	10	-510	100	200	0	
ӄ	Clear									« Pa	age 1 🔻 »	
	Select an alert and click Clear to delete it. <i>Note</i> : The alert is cleared for entire organization.											

Quality Notification Chart

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The Quality notification chart allows buyers to see which are the main sources of quality notifications. The chart displays either the top 10 suppliers or top 10 materials in terms of count of quality notifications associated to them.



Users can choose to see either the top 10 materials or suppliers, as well as apply a filter based on the quality notification creation date.

Cumulative Supply & Demand Graph

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The graph shows the cumulative supply and demand for a combination of Supplier, Material, and Plant values over a period of time.



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Glossary

Term	Definition
Alert	Each individual alert, as visible in the Alert Details page.
Alert type	Groups all alerts referring the same underlying deviation. For example, the Confirmation Date Deviation alert type refers to all alerts for order confirmations with a confirmed delivery date that deviates from the requested date in the purchase order.
Exception group	Group of alert types referring the same underlying transaction. For example, the Confirmation Alerts exception group refers to all order-confirmation related alert types: Confirmation Date Deviation, Confirmation Quantity Deviation, Missing Confirmations.
Administrator settings	The parameters that determine when alerts are generated for each alert type. Administrator settings are defined at the buyer organization level, to generate the same alerts for all buyer users within a buyer organization.
Filters	Settings made by an individual buyer user to control which of all alerts generated for the buyer organization to display on that user's own Supply Chain Monitor view.





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