Course Introduction

This course describes the process of Supply Network Inventory (SNI) in Supply Network Collaboration (SNC), how to monitor Supplier inventory, manage alerts, and how to enter Stock and Key Figure data.

After completing this course, you will be able to:

- Describe the Supply Network Inventory process in SNC.
- Monitor supply chain inventory using SNI.
- Recognize the steps for providing Stock and Key Figure data to SNI.
- Compare historical Stock and Key Figure data.
Supply Network Collaboration
Module Objectives

After completing this module, you will be able to:

- Explain which business processes integrate with your 3M work using SNC.
- Log on to SNC.
3M implemented SAP as its Enterprise Resource Planning (ERP) system to support end-to-end processes.

- SAP software enables a better Supplier experience. It links business processes, people, and information with one global, seamlessly-integrated platform of standardized business processes.

- As part of this implementation, 3M Sourcing Operations uses SAP SNC as a tool to improve communications and productivity for both 3M and our key Suppliers.

- You access the SNC portal through 3M Supplier Direct.
Introduction to Supply Network Collaboration (continued)

3M wants:

- More data sharing with our key Suppliers.
- Key Suppliers to take greater responsibility and act proactively to work as a business partner.

SNC is a web-based component within the SAP Supply Chain Management suite that:

- Supports collaboration between Suppliers and Customers. 3M primarily uses SNC with Suppliers who do not utilize operational transactions or share data electronically.
- Improves process efficiency. SNC helps both 3M and our Suppliers save on cost and time.
SNC Overview

SNC offers a web-based platform for real-time collaboration with internal and external business partners.

Note: 3M’s implementation of Supplier Collaboration with SNC includes:
- Purchase Orders (POs)
- Scheduling Agreement (SA) Releases
- Advance Shipping Notifications (ASNs)
- Invoicing
- Order Forecast Monitoring (OFM)
- Supplier Managed Inventory (SMI)
- Kanban
Suppliers collaborate with 3M for the following processes:

- Advance Shipping Notification
- Demand Collaboration
- Release Process Collaboration
- Purchase Order Collaboration
- Supply Network Inventory
- Inventory Collaboration
- Subcontracting Collaboration
- Invoice Collaboration
- Kanban
- Supplier-Managed Inventory Collaboration
SNC Strategies (continued)

SNC Purchase Order Collaboration
- Keeps 3M and Suppliers updated about PO fulfillment and Delivery Schedules for the POs.
- Enables the Suppliers to respond to requirements quickly and accurately.

SNC Release Process Collaboration
- Facilitates accurate and real-time execution between 3M and our Suppliers—keeps the Supplier updated about:
  - Scheduling Agreements (SAs)
  - Delivery schedules
  - Cumulative received quantities
  - Any exceptions
By using the OFM in SNC, Demand Collaboration is enabled between 3M’s and Suppliers’ planning data.

- It compares the data in a one-window environment.
- Deviations between 3M's plan and the Supplier's plan are shown as absolute numbers, percentages, and color codes.
- OFM provides alerts to all parties so they can quickly adapt planning and delivery capacity to mitigate critical situations.

- Allows Suppliers to provide 3M with the details of a shipment through SNC in advance of, or at the time of, the actual shipment.
- Communicates shipment information, vehicle details, transporter, and contact details to 3M in real time.
SNC Strategies (continued)

- Enables adoption of different inventory management strategies for a smoother flow of inventory from a Supplier to the shop floor. This includes providing 3rd-Party Logistics Provider (3PL), which stores Supplier inventory, with the capability to send the ASN data to 3M for the Supplier.

- The benefits of Inventory Collaboration are:
  - Quick replenishment of supply.
  - Help with planning multiple deliveries over the planning horizon.
  - Higher demand visibility.
SNC Strategies (continued)

Subcontracting Collaboration

- Allows 3M to release POs for Subcontractors in SAP and communicate them to the Subcontractors through SNC.
- This process:
  - Keeps 3M and Subcontractors updated about PO fulfillment and Delivery Schedules.
  - Enables Subcontractors to respond to requirements quickly and accurately.

Supply Network Inventory

- Complements subcontracting collaboration.
- Supports Customers, Subcontractors, and Suppliers of the first level and up (suppliers of the Supplier), and other partners in monitoring stock levels and requirements for products at selected locations in the supply chain.
SNC Strategies (continued)

Invoice Collaboration
Enables a Supplier to create invoices for goods the Supplier provided to 3M.

Supplier Managed Inventory (SMI)
A process that allows gross requirements planning and execution to be managed by a company’s Suppliers. The customer (3M) no longer needs to perform MRP planning.

Kanban
Allows 3M Suppliers to review Purchase Orders and create Advance Shipping Notices.
Using SNC, Suppliers can:

- Access 3M PO, Subcontracting PO, Scheduling Agreement, Delivery Schedule, and Release data.
- Provide 3M with PO confirmation, Delivery Schedule acknowledgements, and ASN data, either online or by using a file upload process.
- Access and download 3M planning, demand, and forecast data.
- Upload planned production data.
- Create and publish invoices and view invoice payment statuses.
Log in to SNC

Access the 3M Supplier Direct Global Landing area by going to 3M.com/supplierdirect in your web browser.

Under Select Your 3M Supplier Direct Location, select your location from the list.
Log in to SNC (continued)

On the selected location’s 3M Supplier Direct Home page, click **Please Sign In** (or the person icon) in the upper right on the Supplier Direct website.
Log in to SNC (continued)

On the *Enterprise Network Login* window, enter your **Username** and **Password**, and click **Login**.
Log in to SNC (continued)

Under the Quick Links section on the right of the page, click the **3M ERP** link to access SNC.

Note: You can also find the **3M ERP** link on the Source to Pay Transactions page under the **Suppliers** tab.
Log in to SNC (continued)

The ERP Portal opens in a new browser window.

Under the **Supplier** tab, then **Supplier Network Communication** tab, the default **Alert Monitor** page displays.
The key points covered in this module are:

- 3M provides Suppliers with a web tool called Supply Network Collaboration (SNC).
- You access SNC using 3M Supplier Direct Portal.
- Suppliers collaborate with 3M for these processes:
  - Purchase Order Collaboration
  - Release Process Collaboration
  - Demand Collaboration using OFM
  - Advance Shipping Notification
  - Inventory Collaboration
  - Subcontracting Collaboration
  - Invoice Collaboration
Introduction to Supply Network Inventory
Module Objectives

After completing this module, you will be able to:

- Describe the purpose of using SNI.
- List the benefits of using SNI.
- Describe the SNI process flow.
- Identify the types of data that can be viewed in SNI.
- Identify the products that can be monitored using SNI.
Supply Network Inventory

Supply Network Inventory (SNI) is a subprocess of Supply Network Collaboration (SNC).

- The main objective of SNI is to monitor the stock positions of one or more materials across an entire supply chain within a full planning cycle.
- SNI supports monitoring stock positions at multiple locations in the supply chain, including:
  - 3M locations
  - Customers
  - Subcontractors
  - Suppliers
  - Suppliers of the Supplier
  - 3rd-Party Logistics Providers
Supply Network Inventory (continued)

A supply chain with an inventory that can be monitored in SNI:

![Supply Network Diagram](image_url)
Benefits of SNI

SNI with SNC:

- Improves inventory turns and reduces non-working inventory.
- Enables more accurate planning and fulfillment across all Business Partners.
Products Monitored using SNI

Products that SNI allows to be monitored are:

- 3M products
- 3M products that are stored and processed further in the Supplier location
- Supplier products (critical components only)
- Products that are stored with another Business Partner (such as a 3PL provider or a Supplier's supplier)
SNI Process Flow

3M and the Business Partners:

1. Extract stock information from 3M backend SAP system and send to SNC.
2. Check for SNI inventory exceptions.
3. Review inventory situation on the SNI Overview window.
4. Review the projected stock status on the SNI Details window.
5. Review current inventory on the Inventory Overview window.
6. Analyze Key Figure history on the SNI History Comparison window.
7. Maintain custom SNI alerts (3M User only).
The key points covered in this module are:

- SNI supports all Business Partners across the supply chain in monitoring the stock positions across the supply chain, within a planning cycle.

- SNI provides a period-oriented, time series-based view of the demands, receipts, and inventories of the components at the Business Partner’s locations.
Monitor Supply Chain Inventory Stock and Key Figures
Module Objectives

After completing this module, you will be able to:

- Review SNI alerts.
- Review SNI status.
- Review projected stock status.
- Review a snapshot of current inventory.
Alerts are triggered for any update on Key Figures in SNI. Any exception situations generate alerts. The alerts are conveyed to both 3M and the Supplier. SNI alerts include:

- **Below Minimum** – Projected Stock (SNI)
- **Above Maximum** – Projected Stock (SNI)
- **Out of Stock** – Projected Stock (SNI)
- **Below Minimum** – Stock on Hand (SNI)
- **Above Maximum** – Stock on Hand (SNI)
- **Out of Stock** – Stock on Hand (SNI)
- **SNI Alert** – Alert conditions have been met for a custom SNI alert
Checking SNI Inventory Exceptions (continued)

To review individual exceptions in the Alert Monitor, the Supplier clicks the individual alert hyperlinks:

Summary of SNI Alerts
Step-by-Step Instructions

Detailed instructions on how to **review SNI exceptions** can be found on the **Supply Network Collaboration Training** site.
The SNI Overview window allows you to check the summary of stock in hand situation for all the 3M locations.

The stock positions are highlighted with different colors codes. This indicates various stock situations:

- **Red**: The projected stock falls to or below zero.
- **Yellow**: The projected stock falls below the minimum stock level (safety stock).
- **Blue**: The projected stock exceeds the maximum stock level.
- **Green**: The projected stock is between the minimum and maximum stock levels.
To review the inventory status, from the **SNI** drop-down list, the Supplier selects **SNI Overview**:
Review Inventory Status (continued)

The *SNI Overview* window provides inventory information by location-product:

- Current stock on hand
- Number of custom SNI alerts maintained and status of the alerts
- Projected stock status of ten relative future Time Buckets (TBs). The buckets are defined using the Time Buckets Profile (days, weeks, or months, including combinations).

- The Time Buckets Profile determines the planning horizon and period division for a location product in the SNI Monitor.
Step-by-Step Instructions

Detailed instructions on how to review inventory positions can be found on the Supply Network Collaboration Training site.
The Supplier reviews the projected stock status in two windows:

- The *SNI Details* window
- The *SNI Details - Product View* window
The Supplier may review the projected stock status on the SNI Details window and SNI Details - Product View window. To review projected stock status:

1. From the SNI drop-down list, select SNI Details.
2. In the *Selection Area*, enter the appropriate fields.
3. To display the data, click **Go**.
For a given period of time, the SNI Details window displays:

**Demand:** SNI considers various types of demands on the output product when calculating Projected Stock. The Demand Key Figure is the sum of Firm Demand, Planned Demand, and Forecast.
Subcontracting Reservation: SNI considers demand for the input component from the Subcontractor when calculating Projected Stock.
Receipts: SNI considers various types of receipts, such as Planned Receipts entered by the Subcontractor or Supplier, Firm Receipts, and In-Transit Quantity when calculating Projected Stock.
**Projected Stock**: The calculated value that represents the stock anticipated to be available at a location at the end of a Time Bucket. For a given Time Bucket, it equals the Projected Stock of the previous Time Bucket + Firm Receipts + Planned Receipts + In-Transit Quantity – Demand – Subcontracting Reservations.
Minimum Stock and Maximum Stock: 3M and the Supplier agree upon these stock levels.
Minimum Proposal and Maximum Proposal: These are calculated values that represent the quantities required to meet the Minimum and Maximum Stock levels. Note: The Minimum and Maximum Stock fields must have values for the proposals to be calculated.
Days’ Supply: The calculated value that indicates the time for which the projected stock would last if there were no receipts in the subsequent Time Bucket. A value of 9,999 represents infinite days of supply.
Review the Projected Stock Status (continued)

On the *Product Data* tab, the Supplier may review location-product details (including multiple stock types) and export the data to an Excel sheet.
Review the Projected Stock Status (continued)

On the Graphic tab, the Supplier may view the product stock position in a graph.
Maintain Time Buckets Profile

Time Buckets Profiles determine the planning horizon and period division for a location-product in the SNI Details and Overview windows. The Time Buckets Profile is:

- Maintained at the Location or Location-Product levels.
- Period division options include:
  - Number of years in the long-term horizon in months.
  - Number of months in the medium-term horizon in weeks.
  - Number of weeks in the short-term horizon in days.
- Period division may include a combination of days, weeks, and months.
- Start offset may be used to move the start of the horizon a number of days into the past or future.
Maintain Time Buckets Profile (continued)

To maintain the Time Buckets Profile:

1. From the **SNI** drop-down list, select **Time Buckets Profile (SNI)**.
Maintain Time Buckets Profile (continued)

2. Click **Edit**.

3. On the *Time Buckets Profile (SNI)* window, enter the **profile parameters**.
Inventory Overview

The *Inventory Overview* provides a view of stock on hand for selected location products:

- Data-providing partner stock displays to discern inventory data that has been provided by multiple Business Partners.
- Includes batch inventory information.
Inventory Overview (continued)

To review the Inventory Overview:

1. From the *SNI* drop-down list, select **Inventory Overview**.
Inventory Overview (continued)

2. To filter the list of User-specific SNI rules, in the Selection Area section, enter all appropriate data.

3. Click **Apply**.
4. In the Stk on Hnd column, review the stock on hand. **Note:** The CORP_3M Business Partner below refers to data that has been loaded from 3Ms SAP backend system.
The key points covered in this module are:

- Alerts are triggered for any update on Key Figures in SNI. Any exception situations generate alerts. Alerts are conveyed to both 3M and the Supplier.
- The Supplier reviews the projected stock status on the *SNI Details* and *SNI Details – Product View* windows.
- The *Inventory Overview* window provides a view of on-hand stock for selected location products.
- The *SNI Overview* window provides inventory information by location product.
- Time Buckets Profiles change the planning horizon and period divisions displays on the *SNI Details*, *SNI Details – Product View*, and *SNI Overview* windows.
External Partner: Stock and Key Figures Data Entry
Module Objectives

After completing this module, you will be able to explain the steps the Supplier performs to enter Stock and Key Figures data.
Methods for Suppliers to Provide Data to SNI

The Supplier needs to provide data to SNC for SNI to work properly. The Supplier may:

- Send data using Automatic Messaging.
- Enter the data directly into the SNI Details and SNI Details – Product View window.
- Send data using the File Transfer Method.
Data Transfer by Automatic Messaging Method

The Suppliers with SAP 6.02 version (and above) may transfer data to SNC automatically. The Supplier needs to:

- Generate reports such as: ROEMPROACT2, RCMPROACT2, and RPRTPROACT.
- Send the report to SNC.

**Note:** This option requires setup and testing on the 3M side. To enable this technology, the Supplier needs to contact 3M.
Data Transfer by the File Transfer Method

To transfer data to SNC offline, the Suppliers without SAP may use the File Transfer Method. The Supplier needs to:

- Create profiles in SNC to download and upload files.
- Download the data file using the SNC Download Center.
- Furnish all the relevant details.
- Save the file in .CSV format.
- Upload the .CSV file into SNC using the SNC Upload Center.
Data Entry by the Supplier in SNI Details

In the SNI monitor, Suppliers can manually edit their Stock Data and other key information. The data entry is completed through two SNI monitor windows:

- **SNI Details**: The Supplier can change various data such as requirements, receipts, and stocks for one or more locations.

- **SNI Details – Product View**: This provides a detailed view of Stock Data and Key Figures pertaining to a single location product in tabular and graphical format.
Data can be entered in several grid arrangements:

- **Edit Details by Assigned Location and Data Provider:** The Key Figures can be maintained at the Location, Product, and Data provider level.

- **Edit Details by Supplier/Ship-from Location and Data Provider:** The Key Figures can be maintained at the Location, Product, Data provider, and Supplier/Ship-from level.

- **Edit All:** The Key Figures can be maintained at the most granular level in SNI, such as Product, Location, Data provider, Assigned location, Supplier, and Ship-from location.
Edit Data on the SNI Details Window

On the SNI Details window, to modify SNI data:

1. From the SNI drop-down list, select SNI Details.
2. Enter the appropriate information and click **Go**.
3. To change the grid arrangement to the appropriate view, enter: **Edit Details by Assigned Location and Data Provider, Edit Details by Supplier/Ship-from Location and Data Provider, or Edit All.**
4. On the **Grid** tab, enter data in the appropriate fields.

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**Edit Data on the SNI Details Window (continued)**

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<th>Edit Details by Assigned Location and Data Provider</th>
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<th>Save</th>
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<th>Audit Trail</th>
<th>History Comparison</th>
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</tbody>
</table>
5. To simulate the changes to calculated Key Figures, click **Simulate**. 

**Note:** The simulated changes display and the calculated Key Figures update.
6. Click **Save**.
To modify SNI data on the *SNI Details-Product* window, the Supplier uses the same process as *SNI Details*:
Upload Key Figures Data into SNI

For the Supplier to upload Key Figures data into SNI:

1. On the Alert Monitor window, from the **Invoice** drop-down list, select **File Transfer**, then **Download Center (External User)**.
2. Prior to downloading an SNI file to Excel using the Download Center, a download profile must be created. From the Download Center (External User) window:

1) Enter the **Choose Partner** details.
2) Enter the **Choose Profile Type** details (Supply Network Inventory).
3) Enter the **Specify Selection Criteria** details.
4) Enter the **Define Periodicity** details.
5) Enter the **Initiate File Generation** details.
Upload Key Figures Data into SNI (continued)

3. To download an SNI file, in the URL for Download column, click the link.
4. Update the editable fields (marked with an X) in the SNI file.

5. Save it as a comma-delimited file (.CSV) (not Excel).
Upload Key Figures Data into SNI (continued)

6. From the **Invoice** drop-down list, select **File Transfer**, then **Upload Center (External User)**.
Prior to uploading an SNI file into SNC using the Upload Center, an upload profile must be created:

7. Enter the **Profile Name**.

8. In the Object Type field, enter **Supply Network Inventory**.

9. In the Customer field, enter **CORP_3M**.

**Note**: Leave the File to Upload field blank.
10. Click **Upload**.
11. To verify if the Key Figures data was uploaded correctly, view the Planned Receipts row.
The key points covered in this module are:

- The Supplier can edit key data in the *SNI Details* window and *SNI Details-Product View* window.
- The Supplier can edit in several grid arrangements:
  - Edit Details by Assigned Location and Data Provider.
  - Edit Details by Supplier/Ship-from Location and Data Provider.
  - Edit All.
- Through the File Transfer Method, the Supplier can mass upload data.
Compare Historical Stock and Key Figures
Module Objectives

After completing this module, you will be able to compare the Historical Stock and Key Figures entered by external partners.
Comparing Inventory History

The *SNI History Comparison* windows allows you to view the comparison of Key Figures or inventory for two time points in the past.

Inventory history may be viewed on two SNI windows:
1. *SNI History Comparison (Inventory)*
2. *SNI History Comparison (Key Figures)*
The SNI History Comparison windows use selection criteria to display history comparison results:

- **History date**: The dates for which the Key Figures or inventory data display.
- **Time horizon for the history comparison**: The earlier history is automatically selected as the beginning of the horizon. The later history date, plus the duration of the time horizon, is selected as the end of the time horizon.
- The columns of the history comparison are set automatically on a daily basis.
SNI History Comparison – Inventory

The *SNI History (Inventory)* window displays the Comparison History for the selected criteria. In the example below, the stock on hand values on 10.09.2013 versus 19.09.2013 are displayed for comparison:

<table>
<thead>
<tr>
<th>History Date</th>
<th>Location</th>
<th>Product</th>
<th>Owner</th>
<th>Supplier</th>
<th>Assignd Prtnr</th>
<th>Assignd Loc.</th>
<th>Stk on Hnd</th>
<th>Silk Usage</th>
<th>Promotion ID</th>
<th>Unres. Stk</th>
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<th>Bleed Stk</th>
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</tr>
</tbody>
</table>
Step-by-Step Instructions

Detailed instructions on how to compare history (Inventory) can be found on the Supply Network Collaboration Training site.
The corresponding window displays the Key Figures for the selected criteria. In the example below, values for the Key Figures on 10.09.2013 versus 19.09.2013 display for comparison:

<table>
<thead>
<tr>
<th>Key Figures</th>
<th>Grid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Print Version</td>
<td>Export</td>
</tr>
</tbody>
</table>
Step-by-Step Instructions

Detailed instructions on how to compare history (Key Figures) can be found on the Supply Network Collaboration Training site.
Module Summary

The key points covered in this module are:

- SNI History Comparison (Inventory)
- SNI History Comparison (Key Figures)
User Specific SNI Alerts
Module Objectives

After completing this module, you will be able to:

- Display an SNI Alert Rule.
- Manually trigger generation for an existing SNI Alert Rule.
- Create a new SNI alert.
- Modify an existing SNI alert.
- Create a new SNI Alert Rule.
- Delete an existing SNI Alert Rule.
User-Specific SNI Alerts

The workflow for User-specific SNI alerts:

- The User creates a User-specific SNI Alert Rule in the *SNC Alert Rules* window.
- SNC triggers an alert each time the scenario does not comply with the Alert Rule.
- The User views the alert in SNC and resolves it, if possible.

User-defined Alert Rules are set for specific business scenarios not supported by the standard set of SNI alerts.
User-Specific SNI Alerts (continued)

The Buyer performs the following activities to manage User-specific SNI alerts:

- Displays an existing SNI Alert Rule.
- Manually triggers generation for an existing SNI Alert Rule.
- Modifies an existing SNI Alert Rule.
- Creates a new SNI Alert Rule.
- Deletes an existing SNI Alert Rule.
To display an existing SNI Alert Rule:

1. On the Alert Monitor window, click the **Exceptions** tab. From the drop-down list, select **SNI Alert Rules**.
2. Enter appropriate data in the Selection Area section to filter the list of User-specific SNI rules. Click Go.
3. Highlight the SNI Alert Rule and click **Display Details** to view the details of the rule.
Display an Existing SNI Alert Rule (continued)

4. You can also click the **Rule ID** hyperlink to view the details.
Display an Existing SNI Alert Rule (continued)

5. The rule details display.
Manually Trigger Alerts against an SNI Alert Rule

To manually trigger alerts against an SNI Alert Rule:

1. On the Alert Monitor window, click the Exceptions tab. From the drop-down list, select SNI Alert Rules.
Manually Trigger Alerts against an SNI Alert Rule (continued)

2. Enter appropriate data in the Selection Area section to filter the list of User-specific SNI rules and click Go.
Manually Trigger Alerts against an SNI Alert Rule (continued)

3. Highlight the SNI Alert Rule and click Create Alert to manually trigger alert generation for the highlighted rule.
Manually Trigger Alerts against an SNI Alert Rule (continued)

4. Click Yes to confirm the alert should be generated with a background job.
Step-by-Step Instructions

Detailed instructions on how to modify an existing Alert Rule can be found on the Supply Network Collaboration Training site.
Step-by-Step Instructions

Detailed instructions on how to create a new Alert Rule can be found on the Supply Network Collaboration Training site.
Alternatively, to create a new SNI Alert Rule:

1. On the Alert Monitor window, click the **Exceptions** tab. From the drop-down menu, select **SNI Alert Rules.**
2. The SNI Alert Rules window displays. Select an existing rule and click Copy.
3. The following message displays. Click Yes.
Alternative Method to Create a New SNI Alert Rule (continued)

4. The rules copy to a new rule generation window. Modify the rules to the requirement and click **Save**.
Delete an Existing SNI Alert Rule

To delete an existing SNI Alert Rule:

1. On the Alert Monitor window, click the Exceptions tab. From the drop-down list, select SNI Alert Rules.
2. The SNI Alert Rules window display. Select an existing rule and click Delete.
Delete an Existing SNI Alert Rule (continued)

3. The following message displays. Click **Yes**. The rule deletes.
Module Summary

The key points covered in this module are:

- Displaying an SNI Alert Rule.
- Creating a new SNI alert.
- Modifying and deleting an existing SNI alert.
- Creating a new SNI Alert Rule.
Conclusion

The key points covered in this course are:

- SNI supports all Business Partners in monitoring the stock positions across the supply chain within a planning cycle.
- External partners send data to SNI either through online reports or through the File Transfer Method.
- Both current and projected stock positions can be monitored in SNI.
- Historical inventory and Key Figures data is maintained in SNC for comparison.
- Exception situations trigger alerts.