NSD ERP System (V 6.4)
LO
Overview

System Overview | NSD Middle East

23-Dec-08

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Introduction

We prepared this document, as an overview, in order to give you a brief idea about the NSD ERP System, knowing that, even if we put a maximum of information and screen copies, we can never replace a live demonstration.

NSD ERP System includes the following applications and functionalities:

- **Financial (Accounting)**
- **Human Resources (Personnel Administration, Time Management, Payroll, Recruitment, Organization Management……)**
- **Logistics (Materials Management, Warehousing, Procurement, Purchasing, Inventory……)**
- **Sales and Distribution and Retails (Point of Sale System)**
- **Production Management**
- **Project Management**
- **Car Management and Transport System**
- **Clinic Management System**
- **Reception and Controlling System**

NSD ERP SYSTEM

NSD ERP is an Integrated System.

The individual applications in the NSD ERP System are fully integrated. All data that are used across applications are stored at client level (the client is the highest hierarchical level in the NSD System). Specifications that you make or data that you enter at this level are valid for all company codes and for all other organizational structures. Consequently, you do not have to enter these specifications or data more than once. Central maintenance ensures standardized data.

Customer and vendor master records, for example, are stored centrally and used in the applications Financial Accounting (FI), Sales and Distribution (SD) and Logistics including the Material Management (MM) and (Procurement – Purchasing – Warehouses Management).

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Also, the individual applications exchange data so that business transactions do not need to be entered more than once. For example, invoices that are posted in SD are passed on to FI, and data that is entered in FI is passed on to other applications. If you use Cost Center Accounting, for example, you can specify a cost center directly when you enter a document, to which the amount entered in the line item, is to be posted.

Since every company area in the NSD System can define its own structure, you should specify how each structure is to be derived from the others, so that data can be transferred from one application to another.

NSD ERP SYSTEM APPLICATIONS:

- ✓ **Financial (Accounting)**
- ✓ **Human Resources** (Personnel Administration, Time Management, Payroll, Recruitment, Organization Management……)
- ✓ **Logistics** (Materials Management, Warehousing, Procurement, Purchasing, Inventory…….).
- ✓ **Sales and Distribution**
- ✓ **Project Management…..**

NSD ERP System - Benefits

NSD System provides to various organizations, information management, analysis and powerful reporting tools.

Some major NSD ERP System benefits:

- **On-line/real time information throughout all the functional areas of an organization**
- **Data standardization and accuracy across the enterprise**
- **“Best-practices" included in the applications**
- **The efficient processes they force an organization to undertake**
- **The analysis and reporting that can be used for long term planning**
- **Multi-language, Multi-Currency and Multi-Companies System…….**
- **The NSD ERP System allows you to manage and perform and present better customer services, greater organizational transparency and increased operational efficiency leading to long-term savings.**

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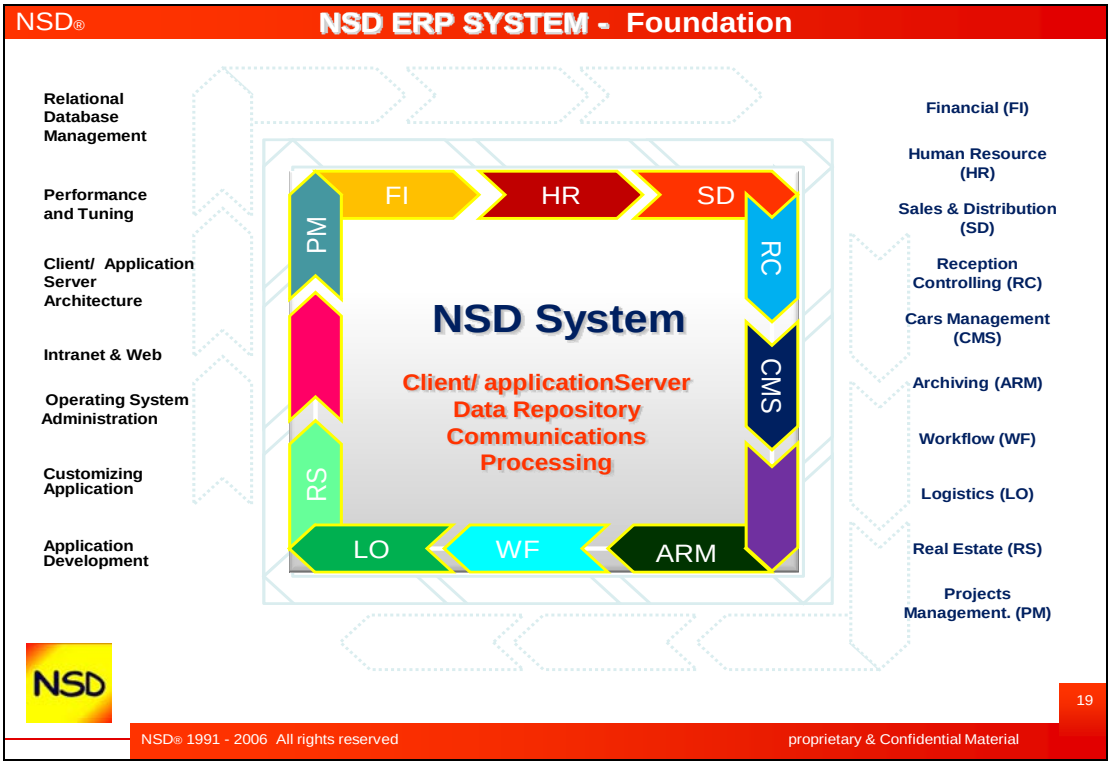
NSD ERP V6.4 System – Logistics Module – Overview

- **The NSD System includes reporting tools for either main reports or for powerful query reports.**
- **NSD ERP system, fundamentally, integrates the different processes necessary for businesses into a centralized pool that facilitates data sharing and eliminates redundancy.**
- **The NSD ERP System is built and developed based on the best worldwide business practices. It includes the necessary applications for the best enterprise management.**
- **The flexibility of the NSD ERP System allows you to add more functionalities and related reports.**

NSD ERP System Foundation and Technology Environment:



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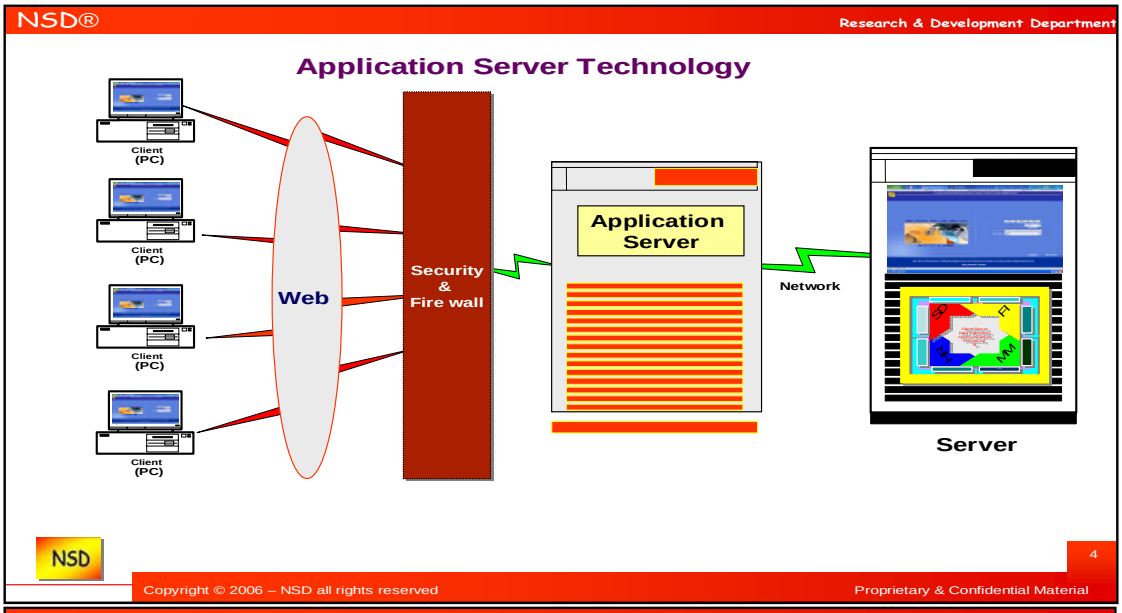
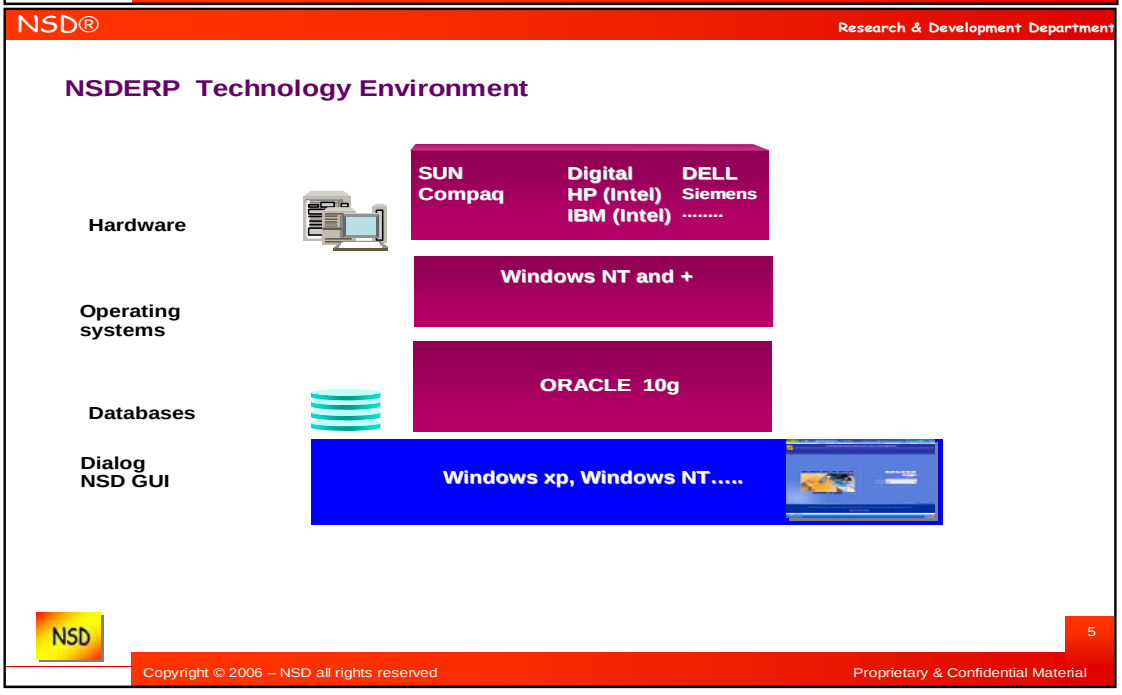
NSD ERP V6.4 System – Logistics Module – Overview





NSD ERP System - Technical Structure

NSD System is based on Oracle Database
NSD System uses a central and main database

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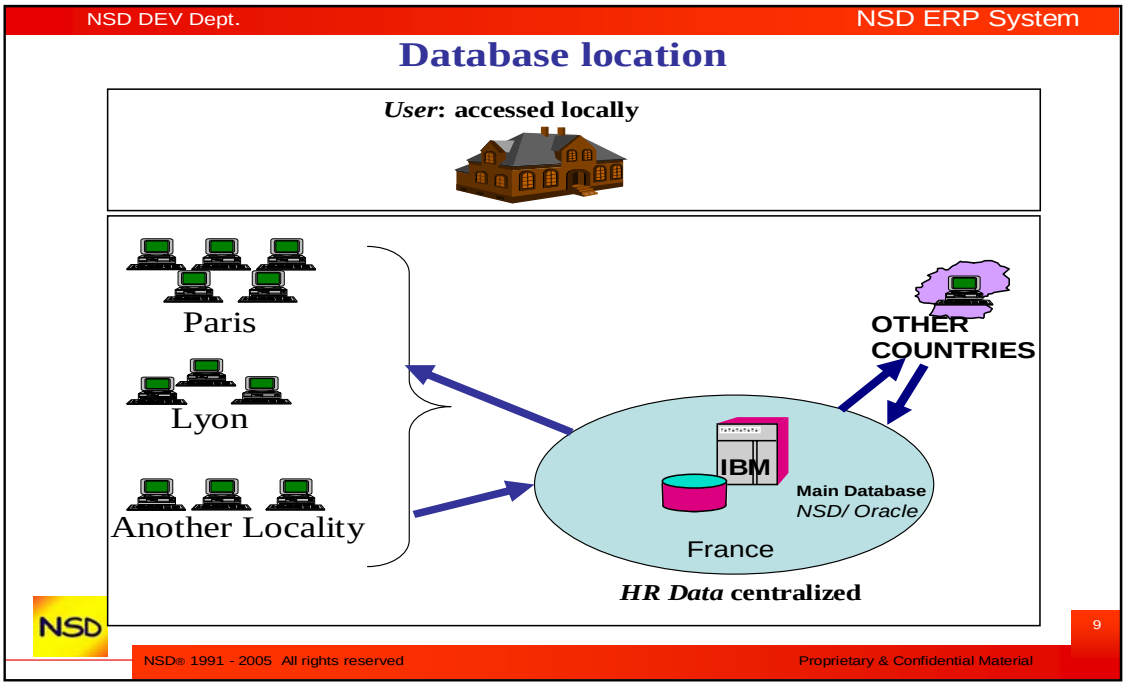

NSD System has a high level system security

That means that the power users, once trained, can change, customize or improve the system.
The NSD SYSTEM is built on a high security level to allow the Power Users to go through the system in a safe way without any risk or access on the database or programs where all sensitive data are stored. In other words, we can say that each user depending on his rights (given by the administrator) can work on the system in safe way.

System Navigation

Log on the NSD System

In this step, it is important to mention that the NSD ERP SYSTEM uses ORACLE database and it is developed in an ORACLE environment. The installation of the system is based on the below listed steps:

1. **Preparation of the technical environment (Hardware – Network …)**
2. **Installation of the database**
3. **Installation of the scripts and forms (the forms are installed in the client level)**

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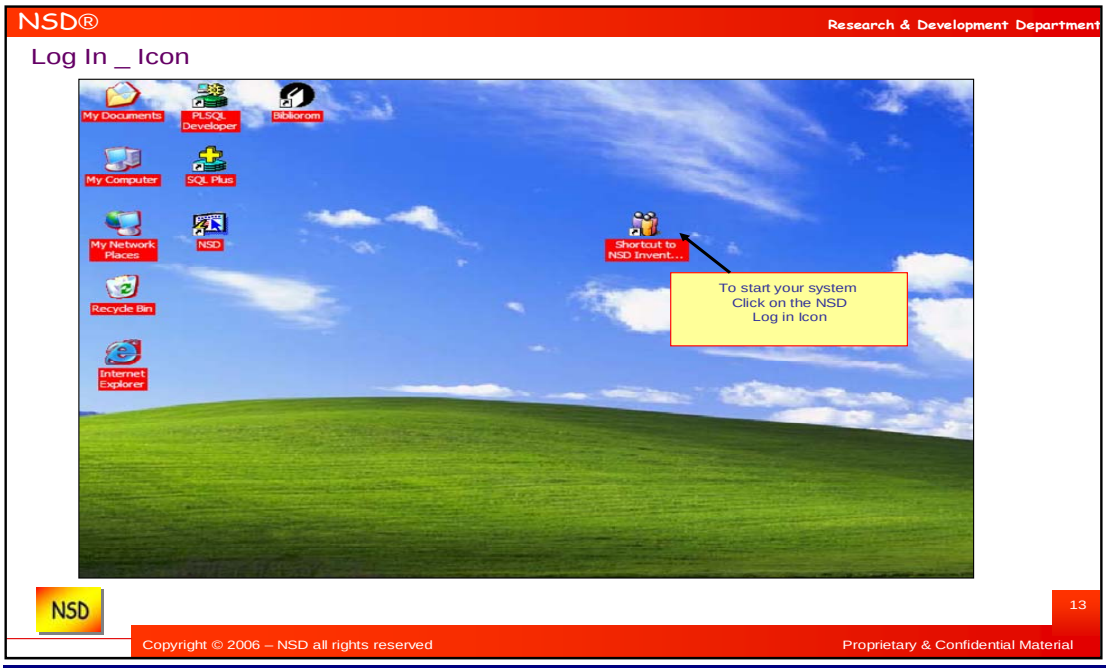
4. **Installation of the GUI (Graphical User Interface)**
5. **Implementation and customization of the system.**

The success of the system's installation is based on a close collaboration between your project team and the NSD or the integrator team.
Once you GO LIVE and you have a production system, your users can use and enjoy the System.

From your desktop, click on the NSD SYSTEM ICON



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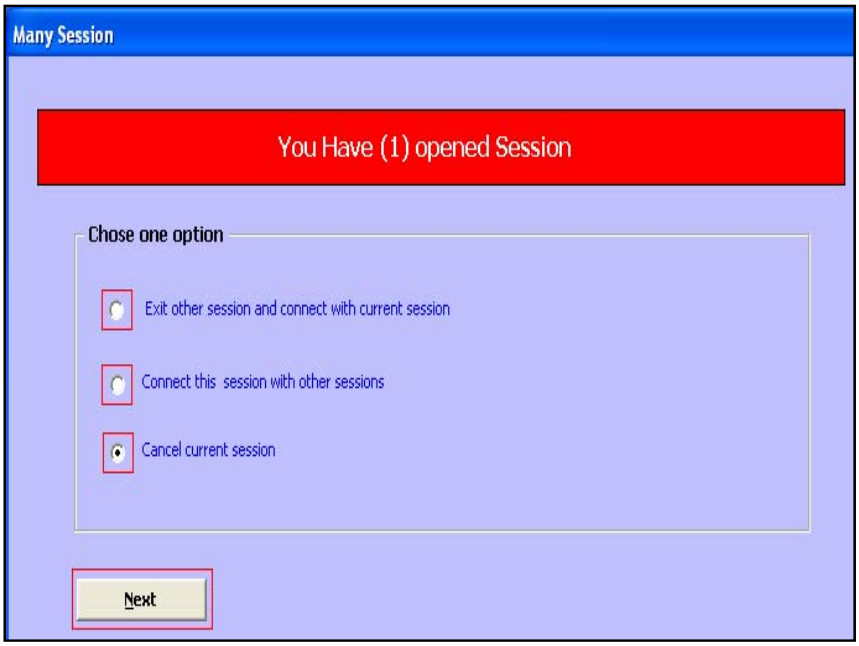
NSD ERP V6.4 System – Logistics Module – Overview

Enter your, user name, password, client and the connection language.

In NSD System you can open more than one session In this case, once you are connected again, the system alerts you by the below messages and gives you the indicated possibilities



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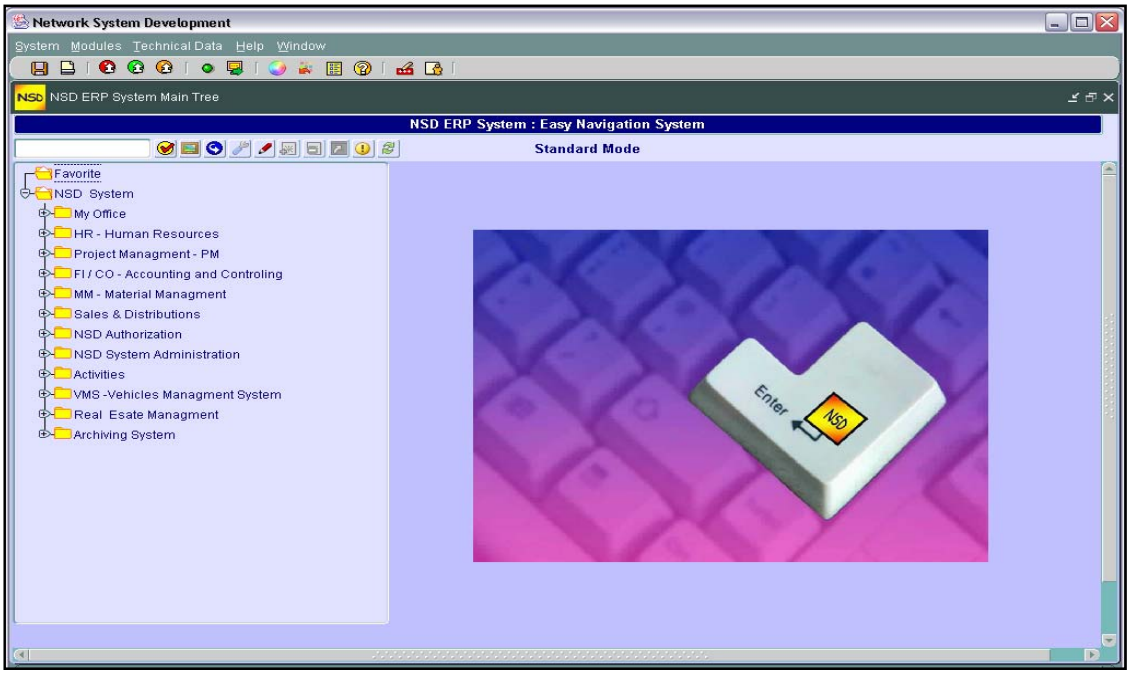
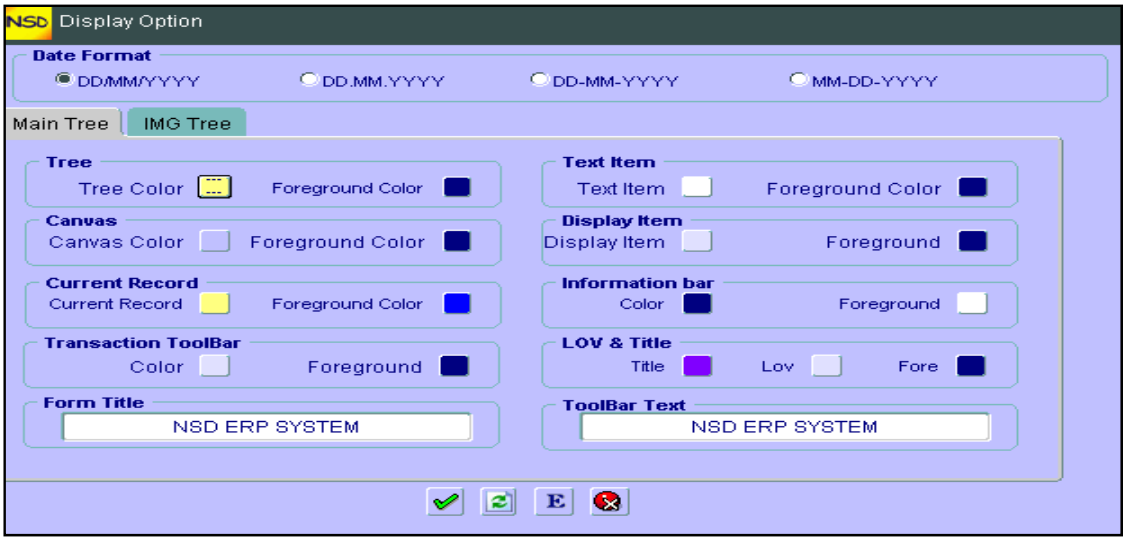
NSD ERP SYSTEM – ENGLISH VERSION

NSD System – Main Screen (Main Tree)



Personalize your system as you like, just click on the design icon and put your personnel data



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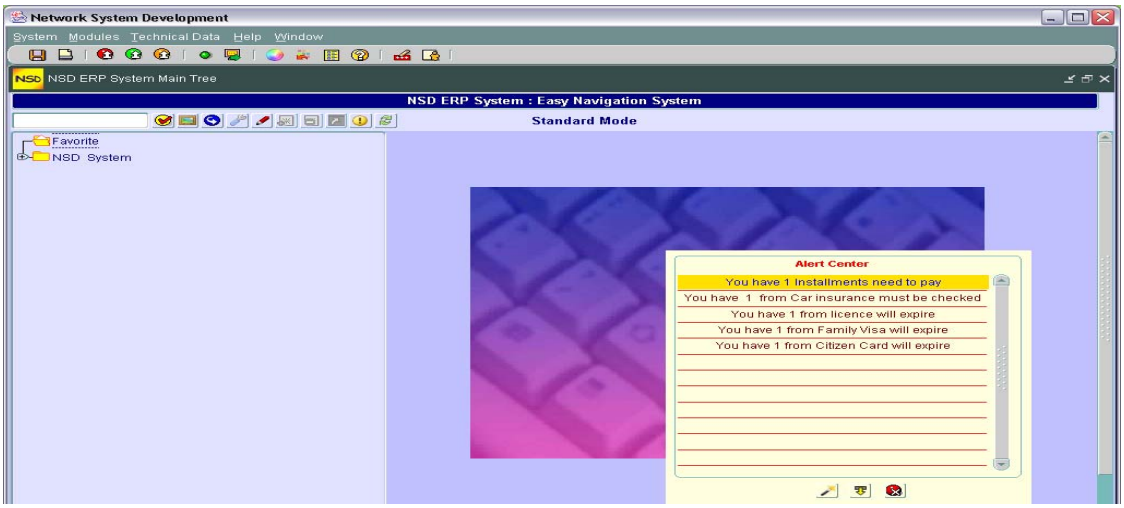
NSD ERP V6.4 System – Logistics Module – Overview

NSD System – Main Screen (Main Tree)



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NSD ERP – Functionalities Summary

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NSD ERP V6.4 System – Logistics Module – Overview

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- **Human Resources (Personnel Administration, Time Management, Payroll, Recruitment, Organization Management……)**
- **Logistics (Materials Management, Warehousing, Procurement, Purchasing, Inventory…….)**
- **Sales and Distribution and Retails (Point of Sale System)**
- **Production Management**
- **Project Management**

In addition to the above main applications, the NSD system includes, also:

- **My Office**
- **System Administration**
- **System Authorization**
- **Activities (Rent Car Management System – Collision Management System – Clinic Management System – Access Control System (Reception Management System)).**
- **And more ……**

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NSD ERP – Logistics (LO)

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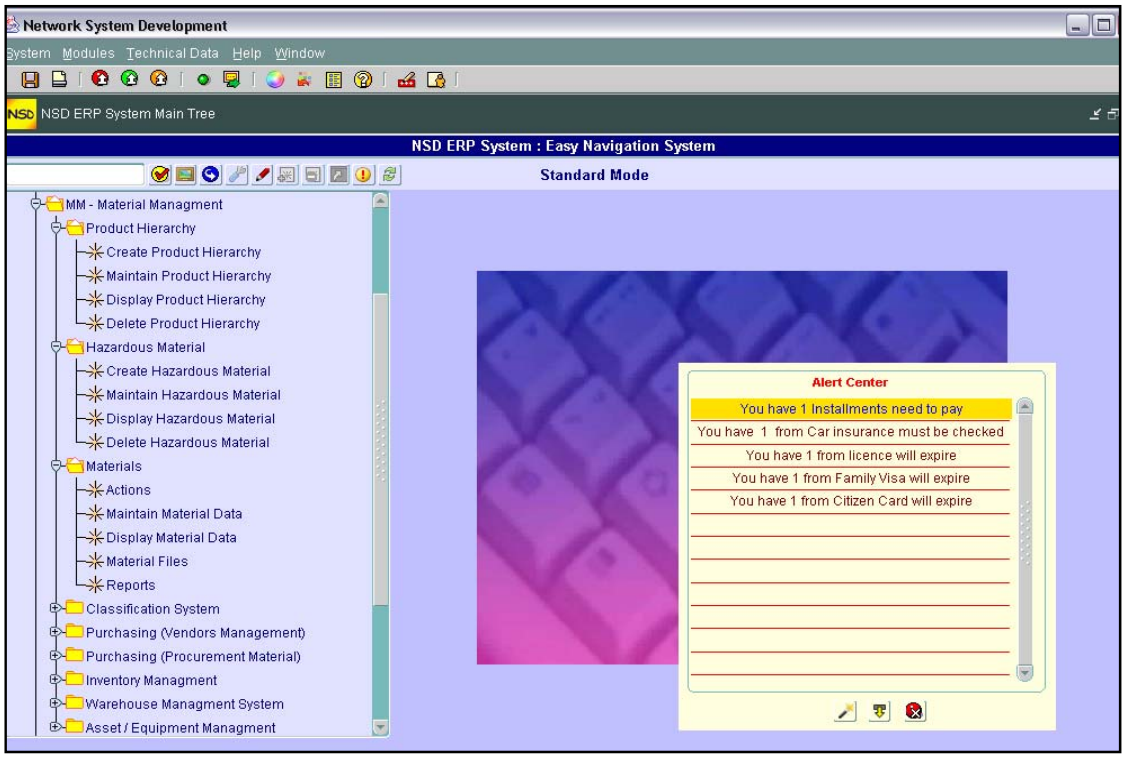
NSD ERP V6.4 System – Logistics Module – Overview

Computer support of the organization and management of materials and warehouses has become imperative for efficient and effective processing of logistic requirements within a company.



The Logistics Application concerns the full material cycle; from procurement to sales.
This application is based on the material master which contains information on all the materials that a company procures or produces, stores, and sells. It is the company's central source for retrieving material-specific data. This information is stored in individual material master records.

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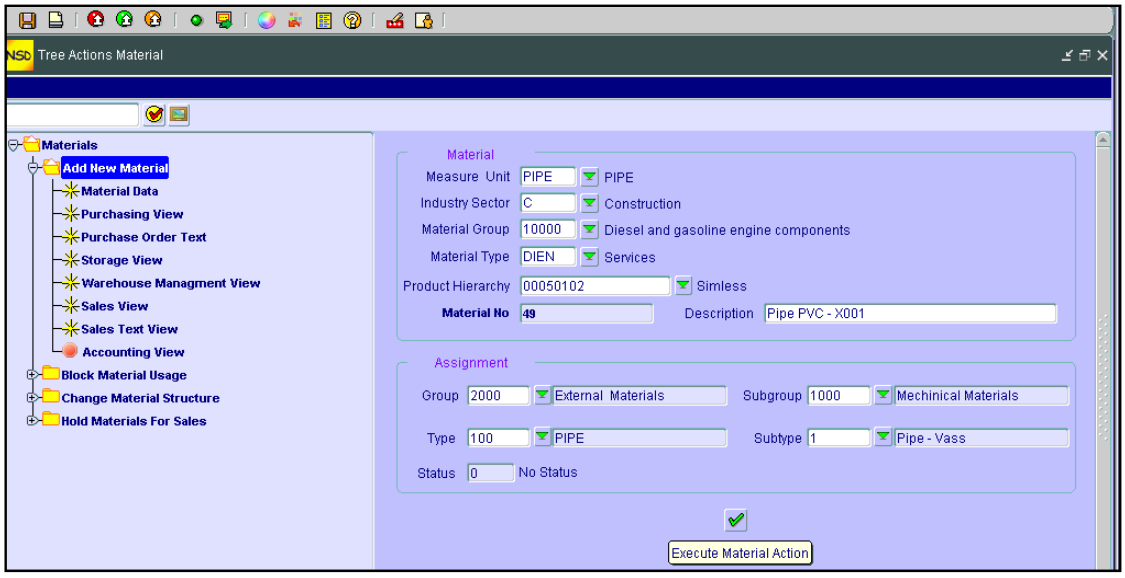
NSD ERP V6.4 System – Logistics Module – Overview



The material master is used by all components in the NSD Logistics System. The integration of all material data in a single database object eliminates redundant data storage. In the NSD Logistics System, the data contained in the material master is required, for example, for the following functions:

- **In purchasing or ordering**
- **In Inventory Management for goods movement postings and physical inventory**
- **In Invoice Verification for posting invoices**
- **In Sales and Distribution for sales order processing**
- **In Production Planning and Control for material requirements planning, scheduling, and work scheduling**

Also,
The material master has a hierarchical structure resembling the organizational structure of a company. Some material data is valid at all organizational levels, while other data is valid only at certain levels. The organizational units (Corporate Structure) are as follows:

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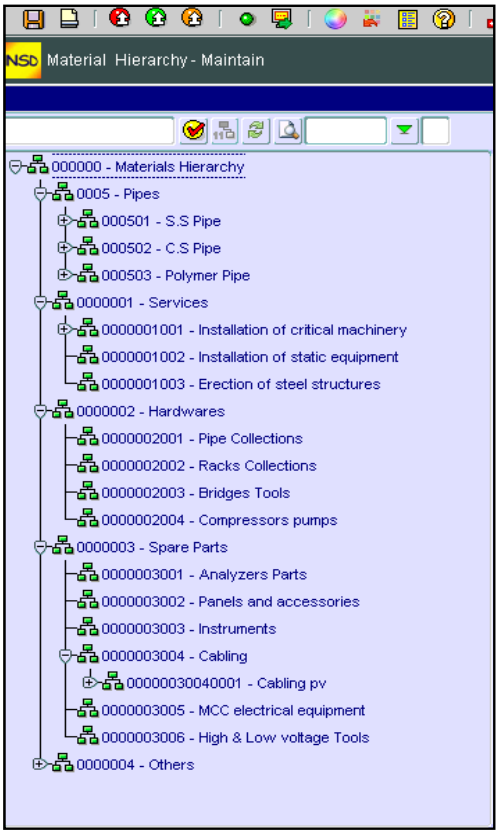

- **Company code**
- **Plant**
- **Storage location**
- **Purchasing organization**
- **Sales organization**
- **Warehouse number**
- **Storage type**

And the storage structure based on the below:

Storage Location

An organizational unit allowing the differentiation of material stocks within a plant. All data referring to a particular storage location is stored at storage location level. This applies mainly to storage location stocks.

Warehouse Number

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An alphanumeric key defining a complex warehousing system and consisting of different organizational and technical units (storage areas). All material data specific to warehouse management and relating to a particular warehouse number is stored at warehouse number level. This includes, for example, data on palletizing, stock placement, and stock removal.

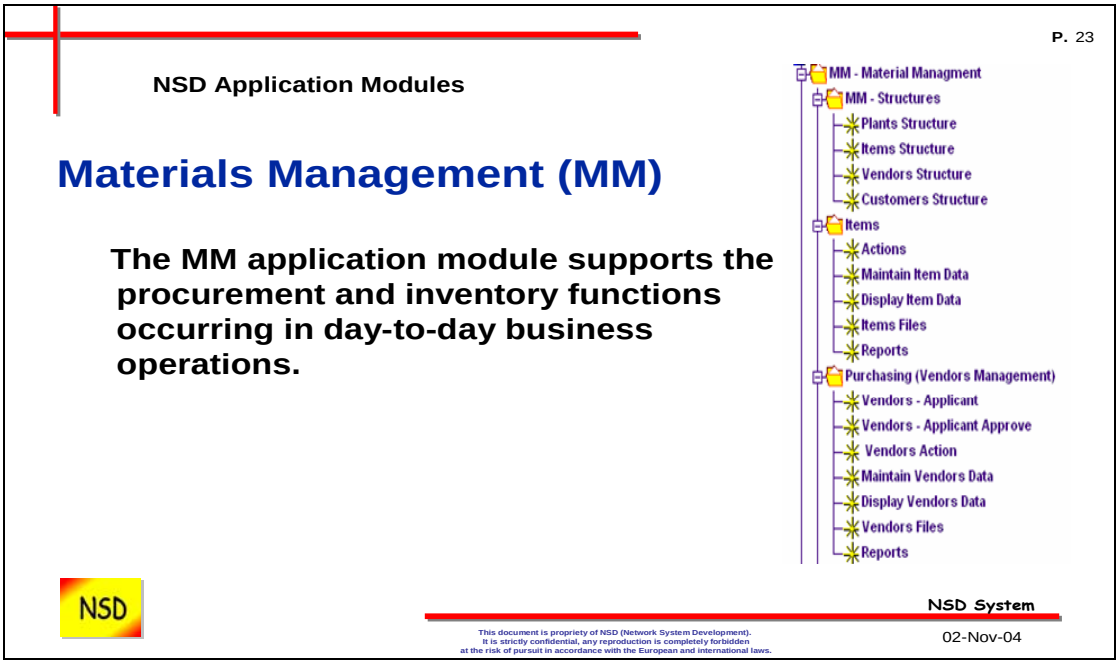
Storage Type

A physical or logical storage area that can be defined for a warehouse in the Warehouse Management (WM) system. It consists of one or more storage bins.

Storage types differ according to organizational and technical criteria. The following are typical examples of storage types that can be defined using the WM system:

- **Goods receipt area**
- **Goods issue area**
- **Picking area**
- **High rack storage area**

All material data specific to warehouse management and relating to a particular storage type is stored at storage type level. This includes, for example, fixed storage bins as well as maximum and minimum storage bin quantities.



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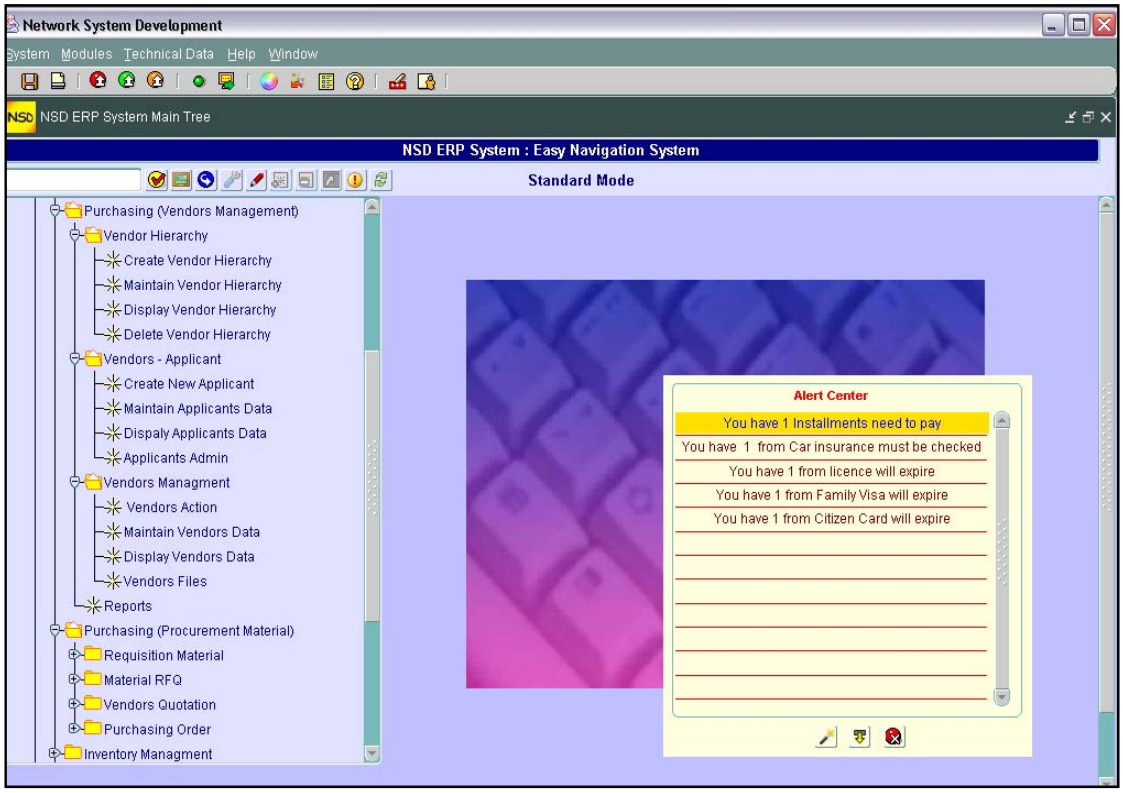
NSD ERP V6.4 System – Logistics Module – Overview

In NSD ERP System, the Logistics application has and is composed by the below sub modules:

- Procurement
- Purchasing
- Warehousing
- Inventory



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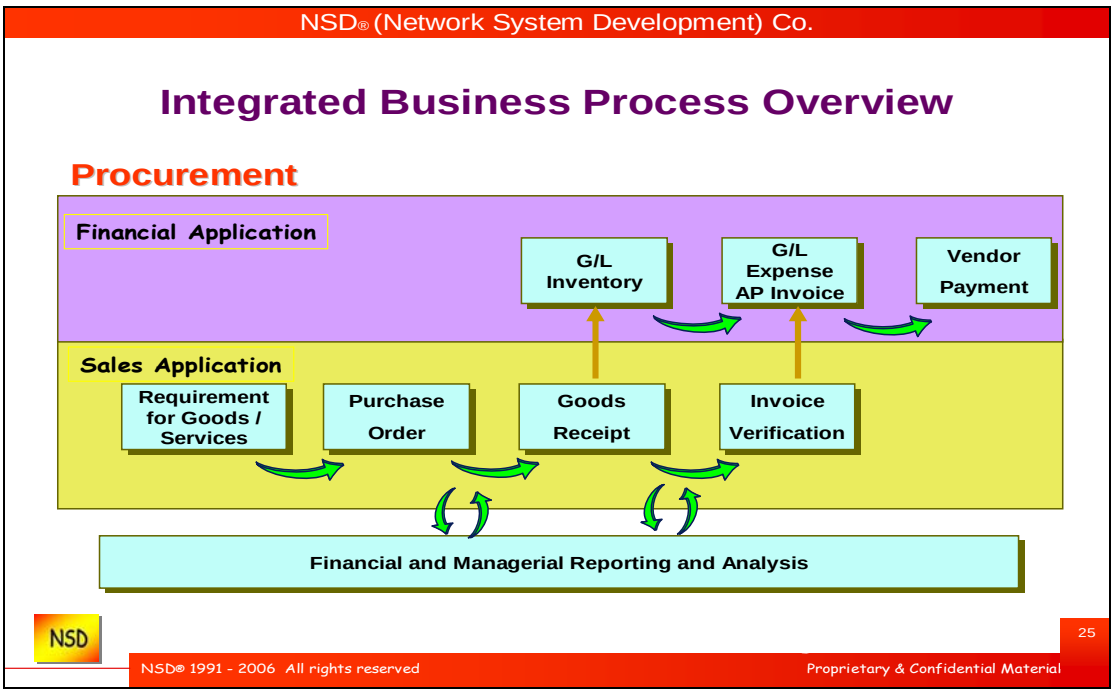
Procurement



The typical procurement cycle for a material consists of the following steps:

- **Determination of requirements;**
- **Source determination;**
- **Vendor Selection and Comparison of Quotations;**
- **Purchase Order Processing;**
- **Purchase Order Follow-Up;**
- **Goods Receiving;**
- **Invoice Verification.**

Purpose

External procurement in the MM System centers around a general cycle of activities.

Process Flow

The typical procurement cycle for a service or material consists of the following phases:

1. **Determination of Requirements**

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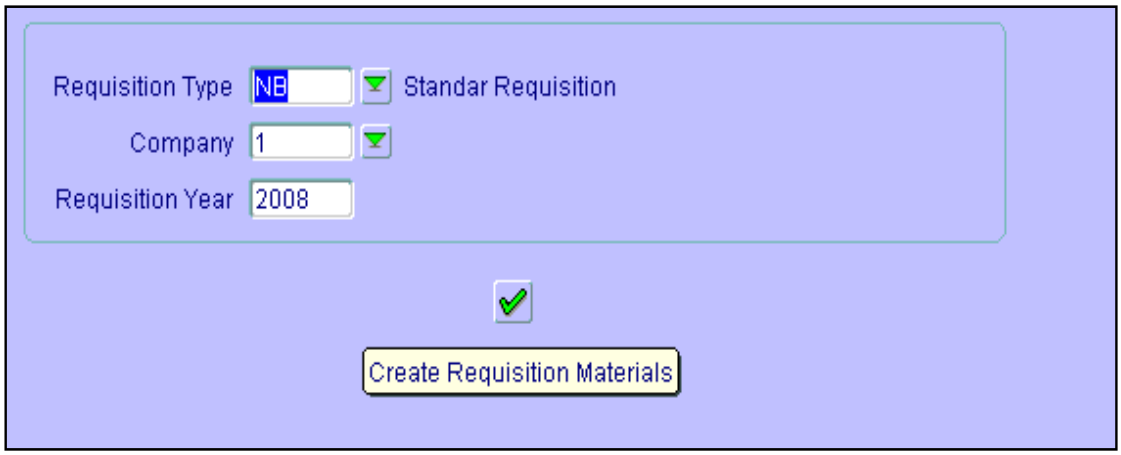
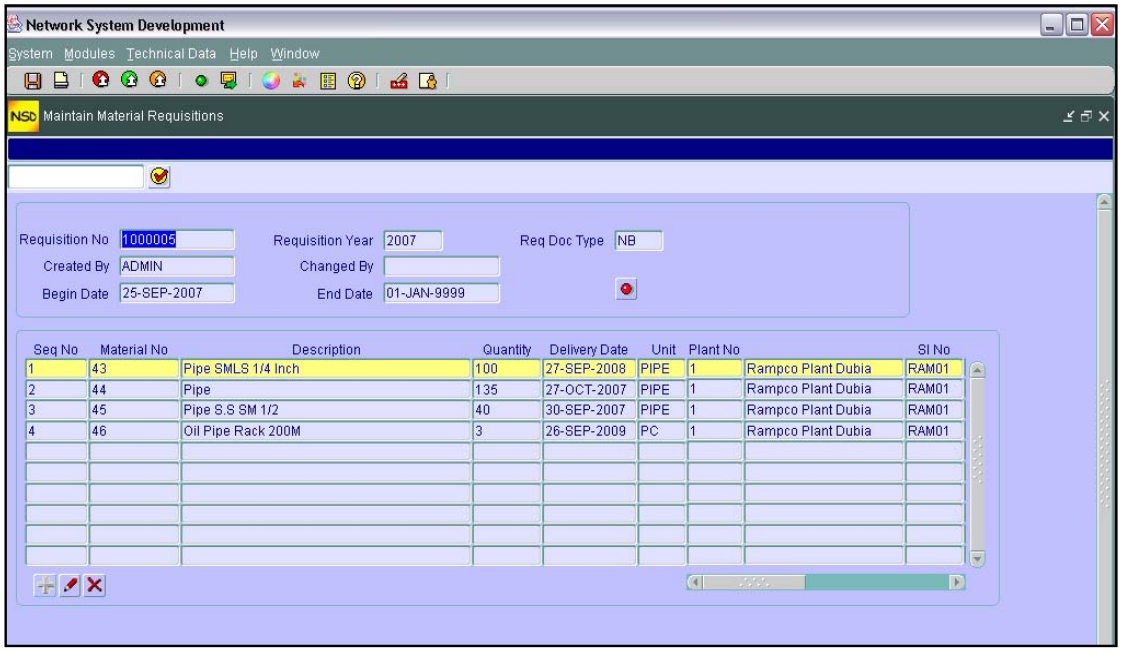
Materials requirements are identified either in the user departments or via materials planning and control. (This can cover both MRP proper and the demand-based approach to inventory control. The regular checking of stock levels of materials defined by master records, use of the order-point method, and forecasting on the basis of past usage are important aspects of the latter.) You can enter purchase requisitions yourself, or they can be generated automatically by the materials planning and control system.





2. Source Determination

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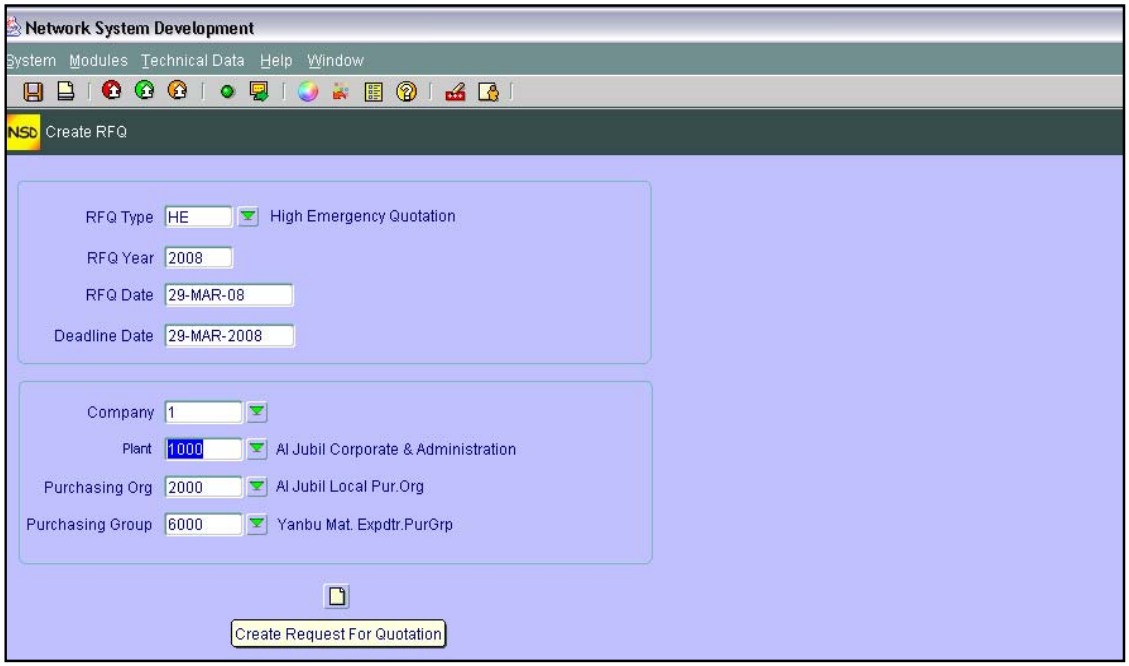
NSD ERP V6.4 System – Logistics Module – Overview

The Purchasing component helps you identify potential sources of supply based on past orders and existing longer-term purchase agreements.



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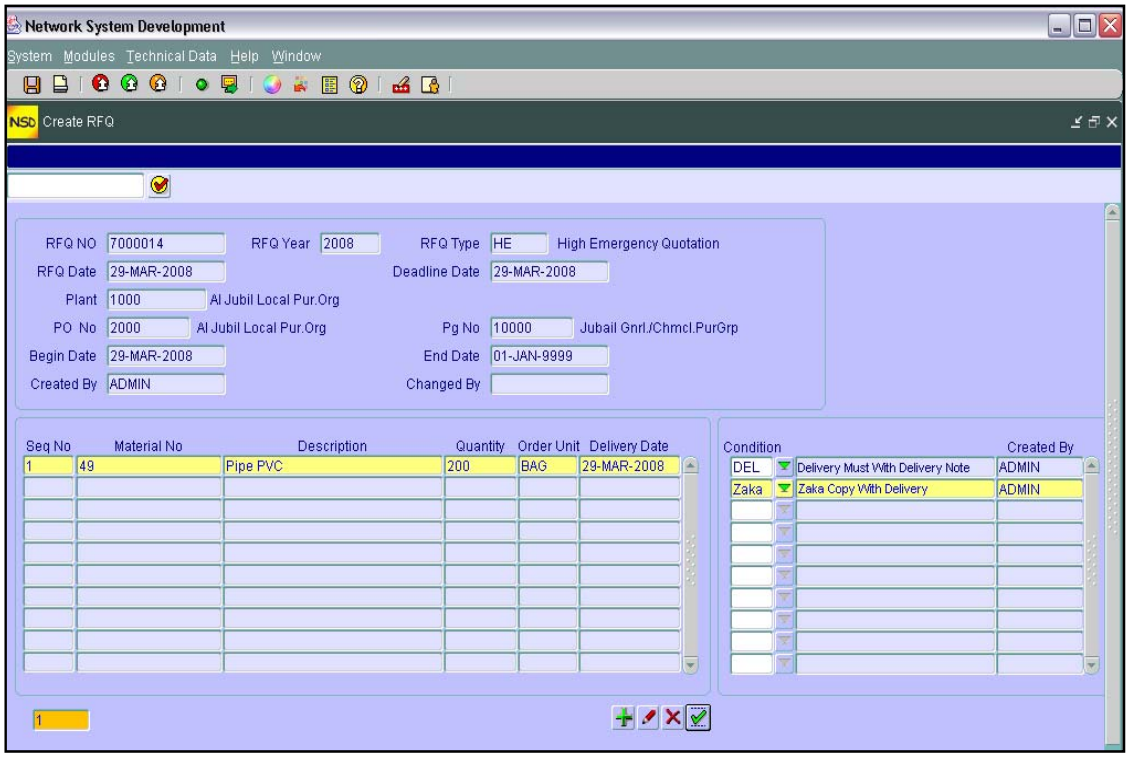
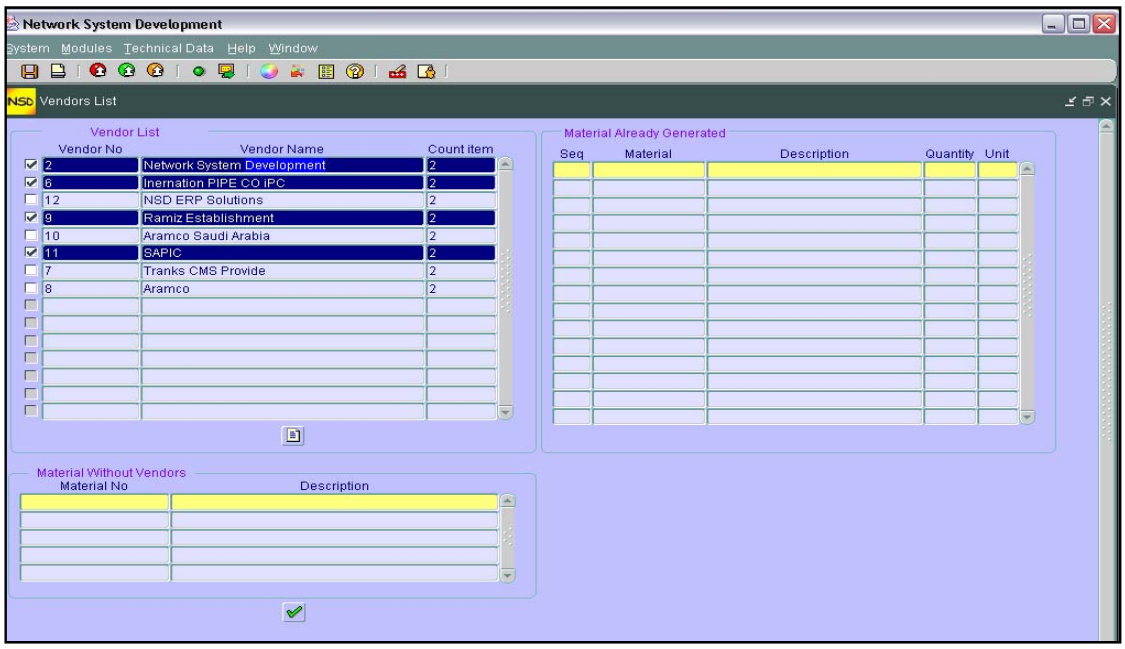
NSD ERP V6.4 System – Logistics Module – Overview





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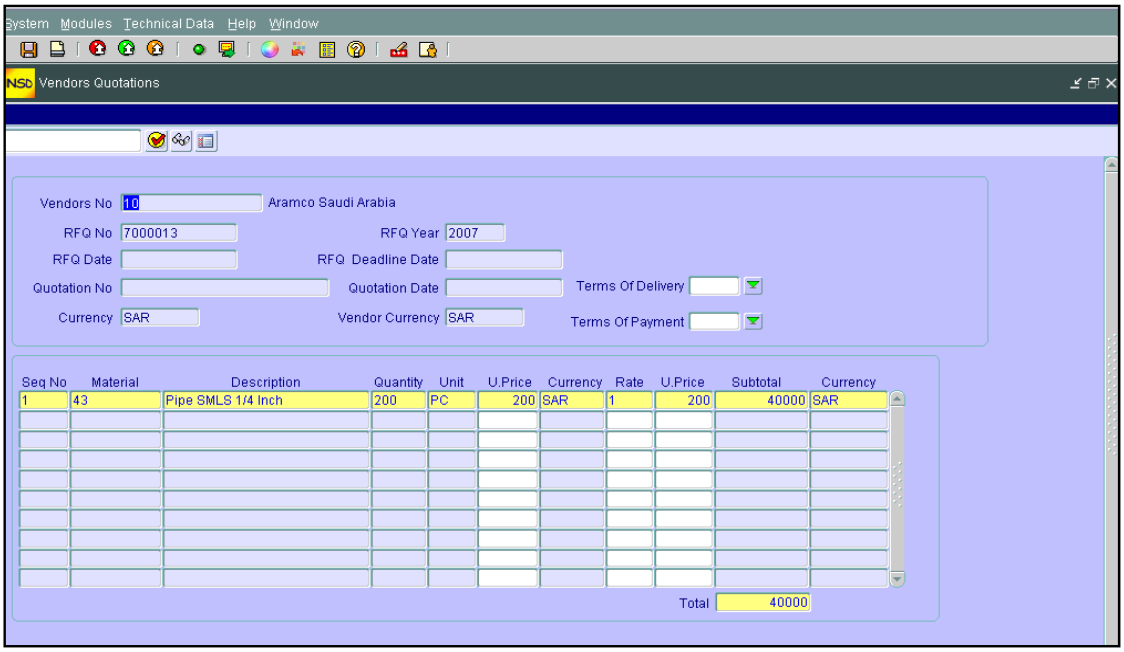
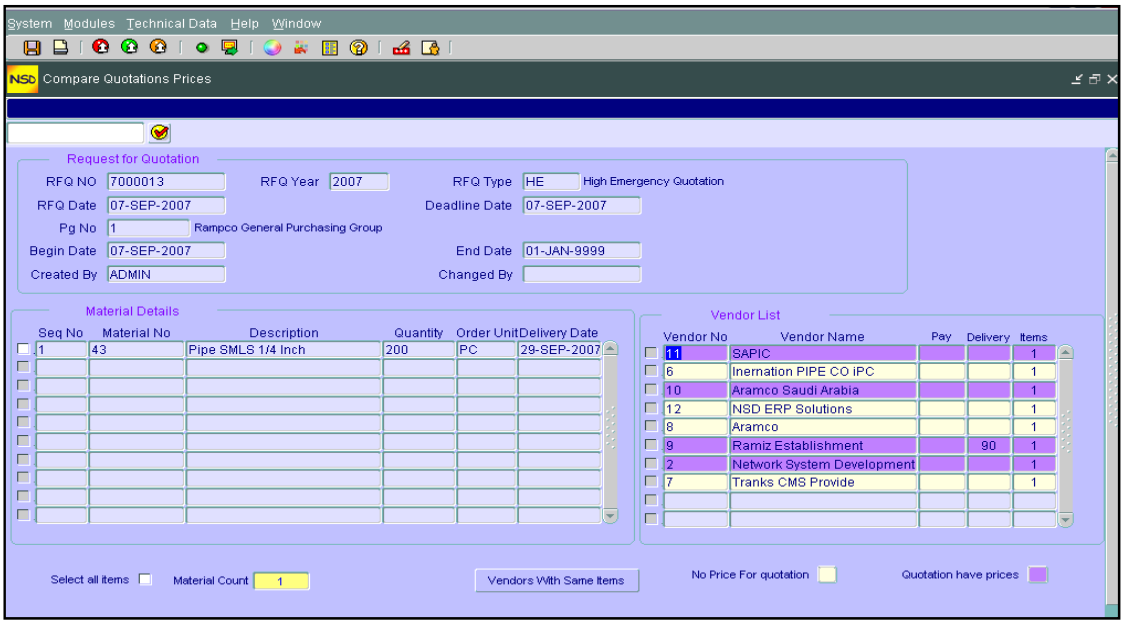
3. Vendor Selection and Comparison of Quotations

The system is capable of simulating pricing scenarios, allowing you to compare a number of different quotations. Rejection letters can be sent automatically.





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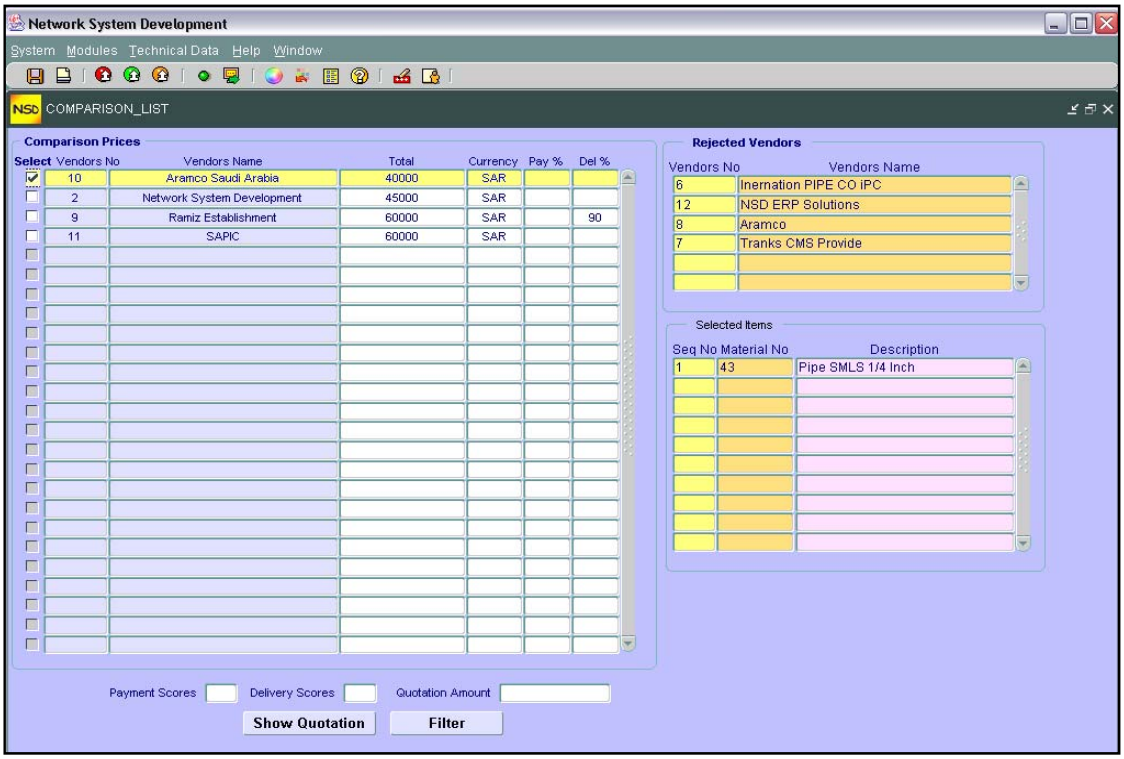

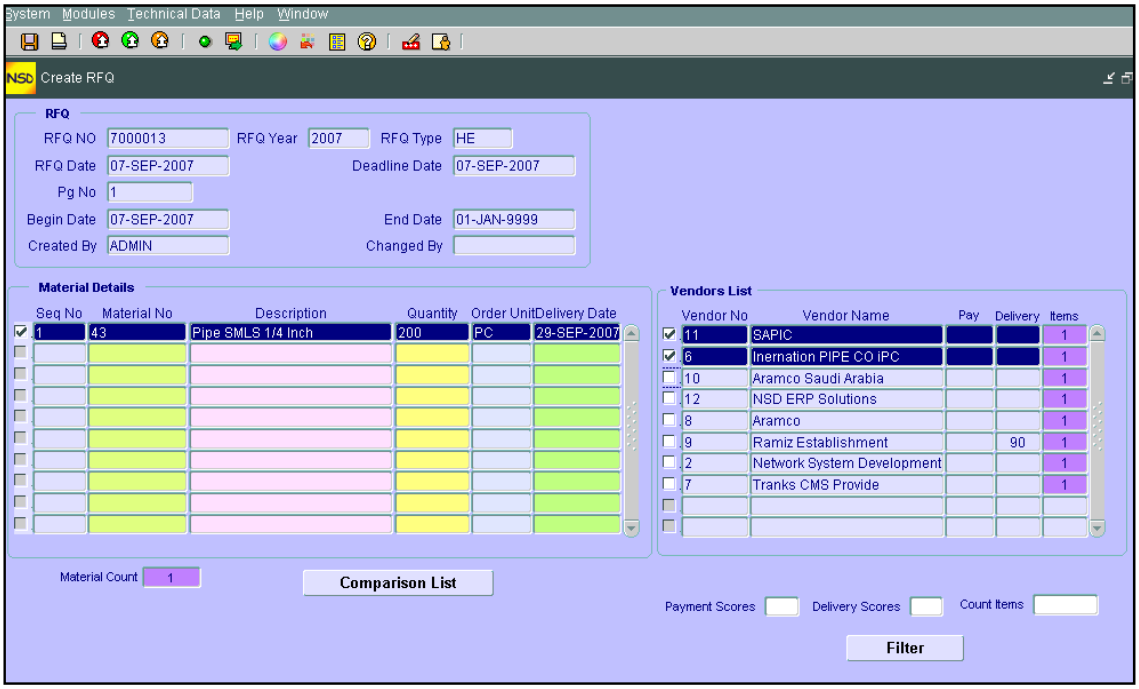

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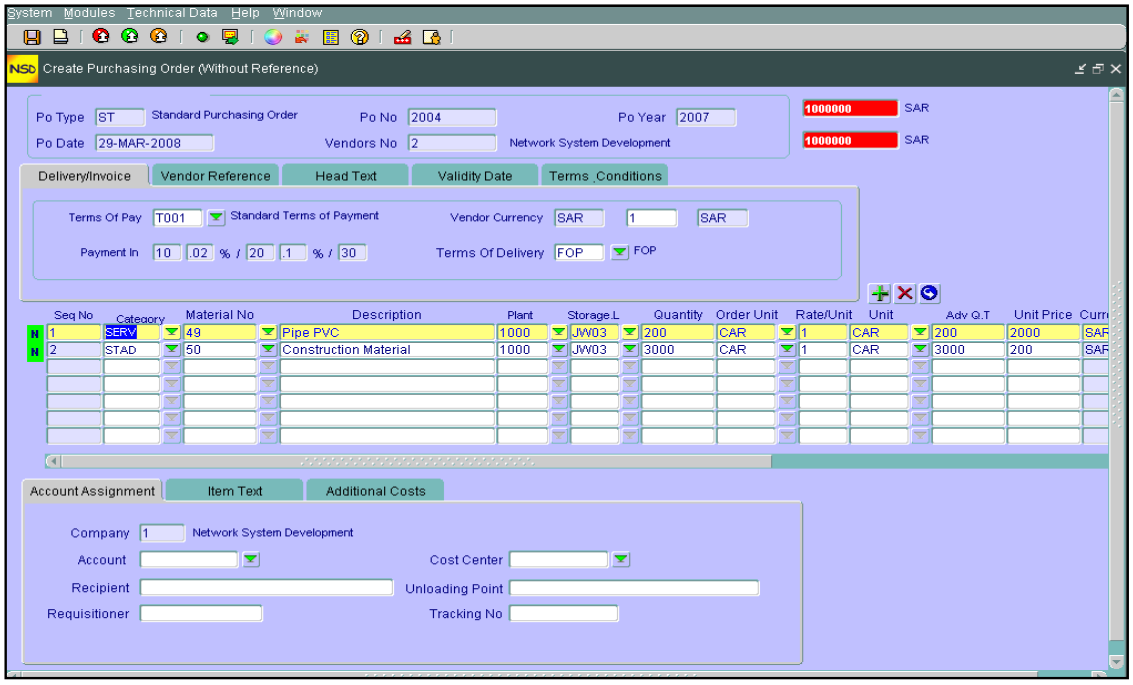
4. Purchase Order Processing

The Purchasing system adopts information from the requisition and the quotation to help you create a purchase order. As with purchase requisitions, you can generate PO's yourself or have the system generate them automatically. Vendor scheduling agreements and contracts (in the NSD System, types of longer-term purchase agreement) are also supported.



5. Purchase Order Follow-Up

The system checks the reminder periods you have specified and - if necessary - automatically prints reminders or expediters at the predefined intervals. It also provides you with an up-to-date status of all purchase requisitions, quotations, and purchase orders.

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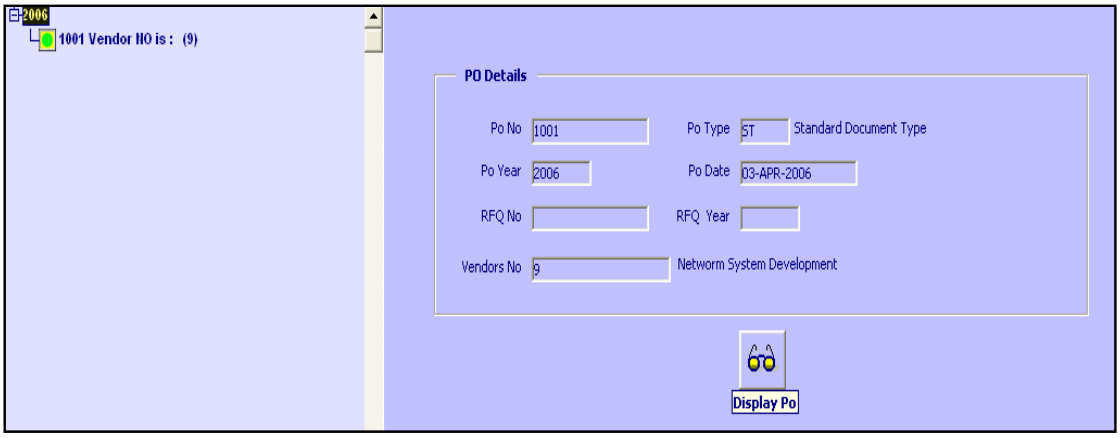


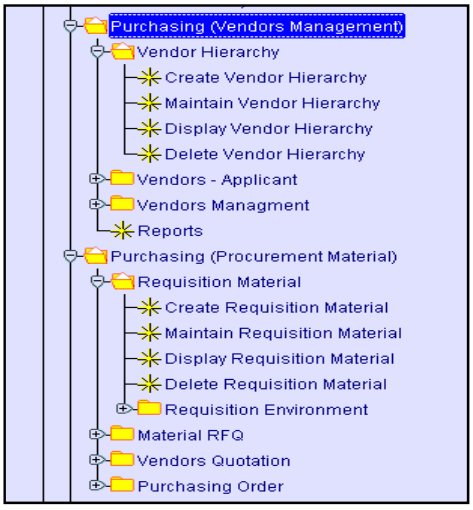
6. Goods Receiving and Inventory Management

Goods Receiving personnel can confirm the receipt of goods simply by entering the PO number. By specifying permissible tolerances, buyers can limit over- and under deliveries of ordered goods.

7. Invoice Verification

The system supports the checking and matching of invoices. The accounts payable clerk is notified of quantity and price variances because the system has access to PO and goods receipt data. This speeds up the process of auditing and clearing invoices for payment.

Purchasing



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NSD ERP V6.4 System – Logistics Module – Overview

Purpose

The NSD System consists of a number of components that are completely integrated with one another. This integration allows the various departments and units of an enterprise to share and maintain the same information.

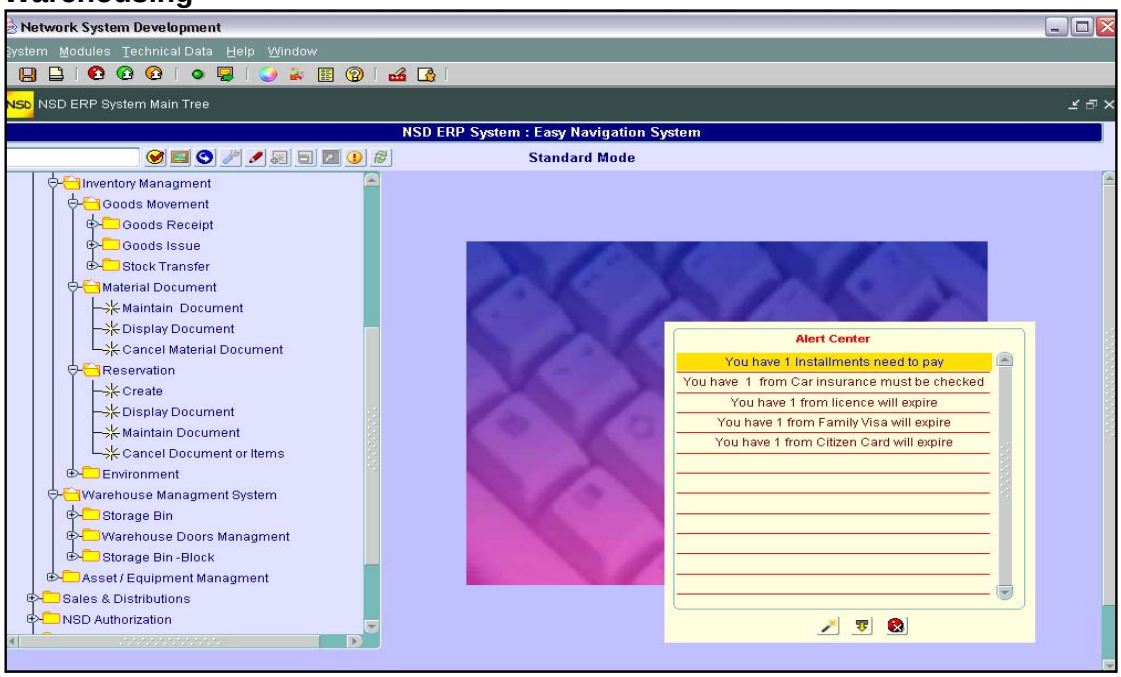
Purchasing is a component of Materials Management (MM). The Materials Management (MM) module is fully integrated with the other modules of the NSD System. It supports all the phases of materials management: materials planning and control, purchasing, goods receiving, inventory management, and invoice verification.

The tasks of the MM Purchasing component are as follows:

- **External procurement of materials and services**
- **Determination of possible sources of supply for a requirement identified by the materials planning and control system or arising directly within a user department**
- **Monitoring of deliveries from and payments to vendors**

Good communication between all participants in the procurement process is necessary for Purchasing to function smoothly.

Warehousing



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NSD ERP V6.4 System – Logistics Module – Overview

The NSD Warehouse Management (WM) system provides the flexible, efficient, automated support that enables you to:

1- Manage highly complex warehouse structures and several different types of warehousing facilities including automatic warehouses, custom-designed storage areas, high rack storage, block storage, fixed bin storage and all other commonly used storage areas.

2- Define and adapt a variety of storage bins for use in your specific warehousing complex.

3- Process all relevant warehousing activities and movement tasks, such as good receipts, goods issues, internal and external stock transfers, automatic replenishment of fixed bins, material staging to production areas and stock difference handling.

4- Utilize random slotting for multiple owners of goods, display summary evaluations of all goods movements in the warehouse, implement a variety of readily available put-away and picking strategies including self-designed strategies.

1- Support the storage and retrieval of hazardous materials and all other goods that require special handling, maintain up-to-the-minute inventory records at the storage bin level using real-time continuous inventory techniques.

6- Support the use of automated barcode scanners for all stock movements, interface to external non-NSD warehousing systems, fully integrate your Warehouse Management system for instantaneous interaction with other NSD components to include Materials Management (MM), Inventory Management (IM) and Sales and Distribution (SD).

7- In addition to supporting the design of all typical storage areas, the WM system provides an automated support for several advanced warehousing techniques, such as the analysis of requirements and automatic assignment of goods to optimum locations in the warehouse using put away strategies that can be easily defined to match the characteristics of each storage area the configuration of areas for backorder staging and cross-docking of received goods.

8- The WM system supports the processing of all relevant movements, including goods receipts and goods issues initiated by the Inventory Management (IM) system, deliveries from the Sales and Distribution (SD) system, as well as movements that take place within the warehouse, such as internal stock transfers.

9- With its inventory functions, the WM system ensures that book inventories in the Inventory Management system match the stock in the warehouse, at any time. Because NSD components are fully integrated, you do not need separate interface programs between the Inventory Management system and the Warehouse Management system.

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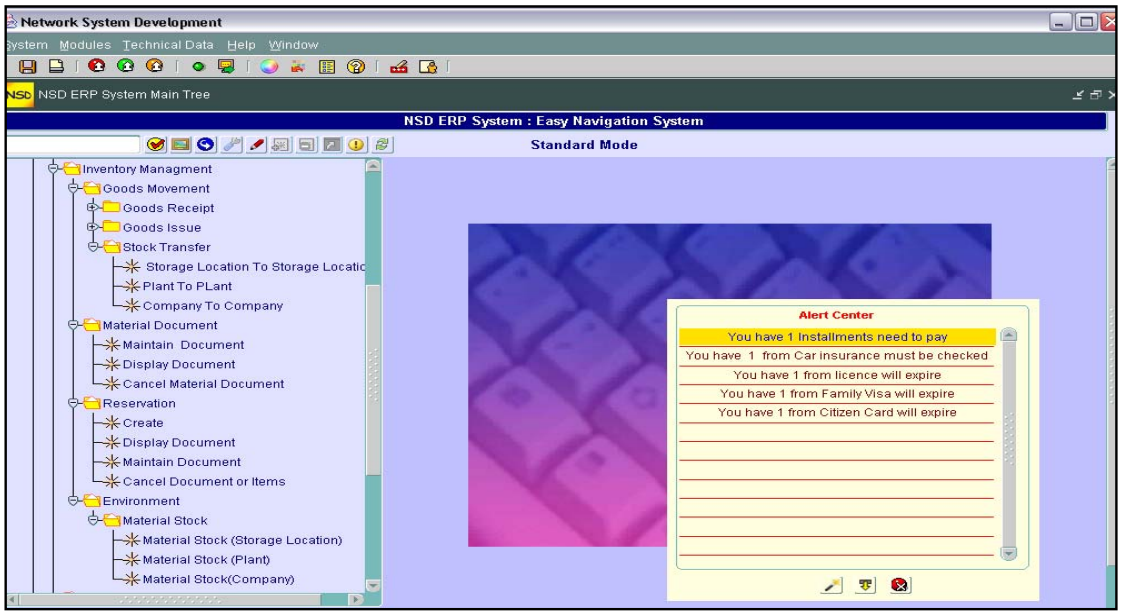
10- The MM application supports the procurement and inventory functions occurring in day-to-day business operations and the Warehouses and Storage Management.

Inventory

Inventory Management is part of the Materials Management module and is fully integrated in the entire logistics system:



Material is procured from external or internal sources on the basis of the requirements determined by Material Requirements Planning. The delivery is entered in Inventory Management as a goods receipt. The material is stored (and managed under Inventory Management) until it is delivered to customers (Sales & Distribution), or is used for internal purposes (for example, for production).During all transactions, Inventory Management accesses both master data (such as material master data) and transaction data (such as purchasing documents) shared by all Logistics components.

Goods Receipt: You use this component to post the receipt of goods from an external vendor or from production. A goods receipt leads to an increase in warehouse stock.

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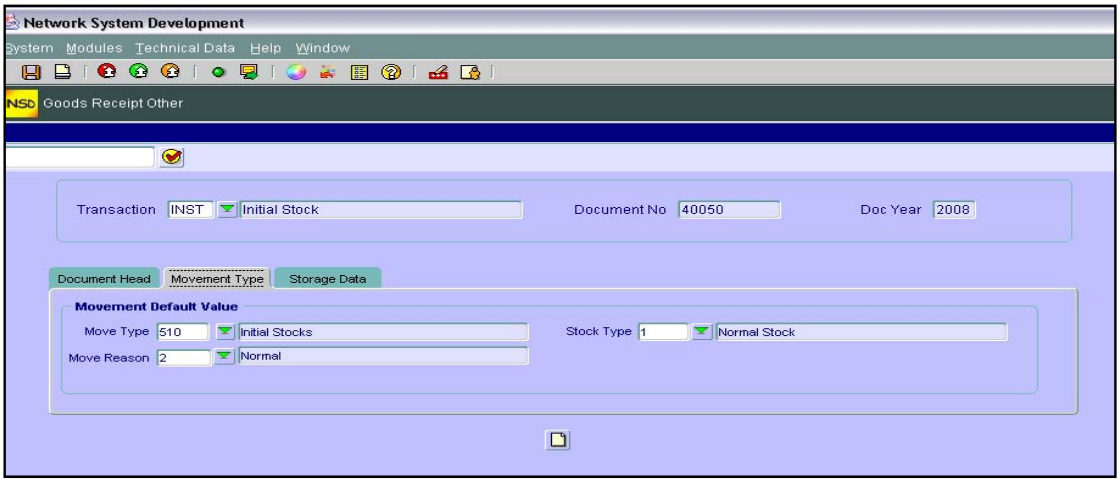

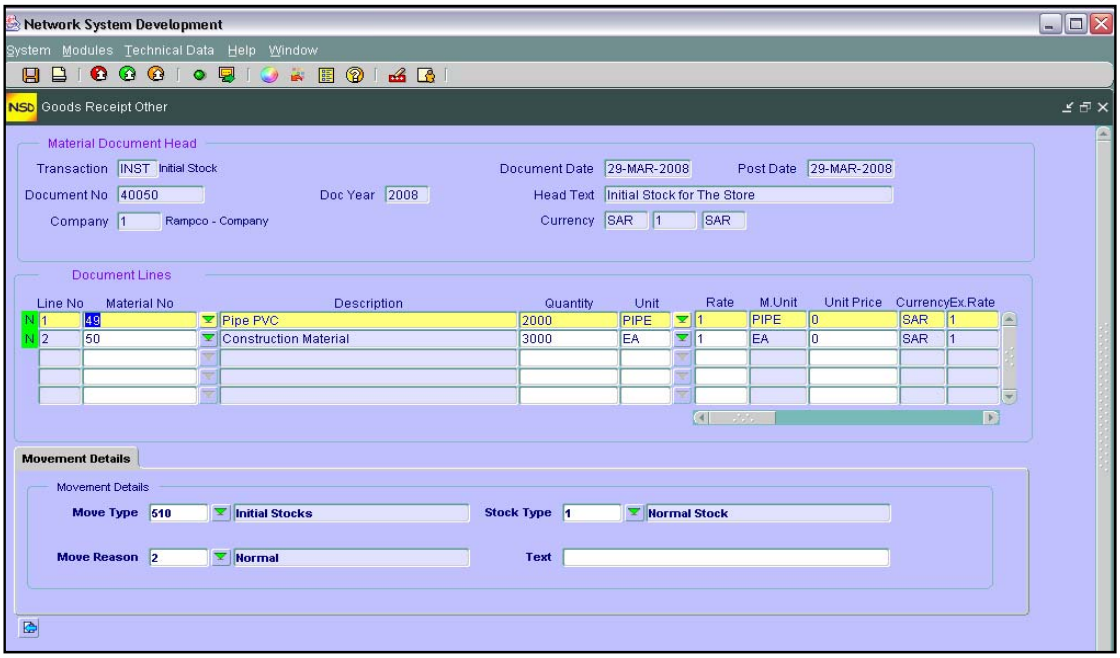

Goods Issue: Using this component, you can post a material withdrawal, a material issue, or a shipment of goods to a customer (without the involvement of the SD Shipping component). A goods issue leads to a reduction in warehouse stock.

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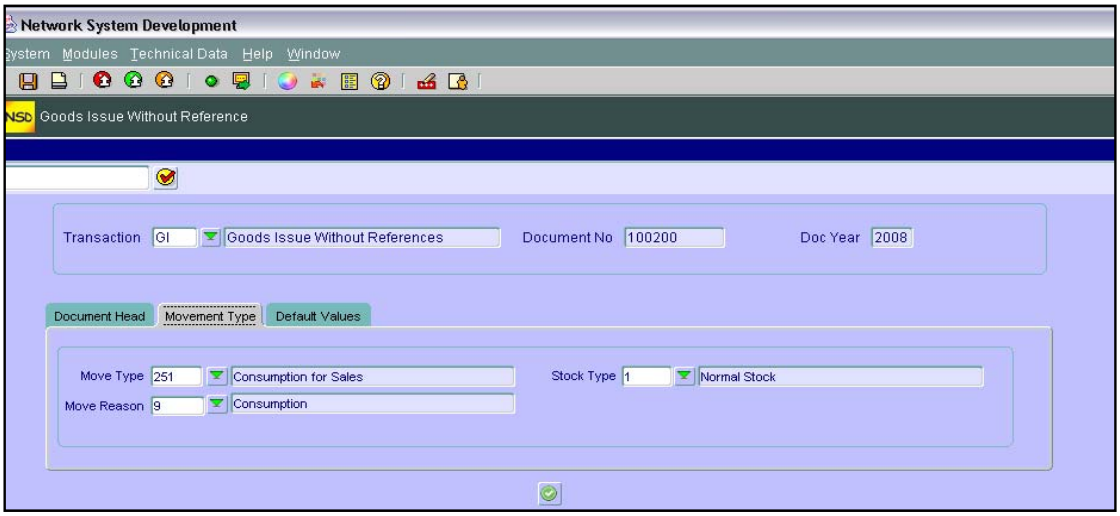

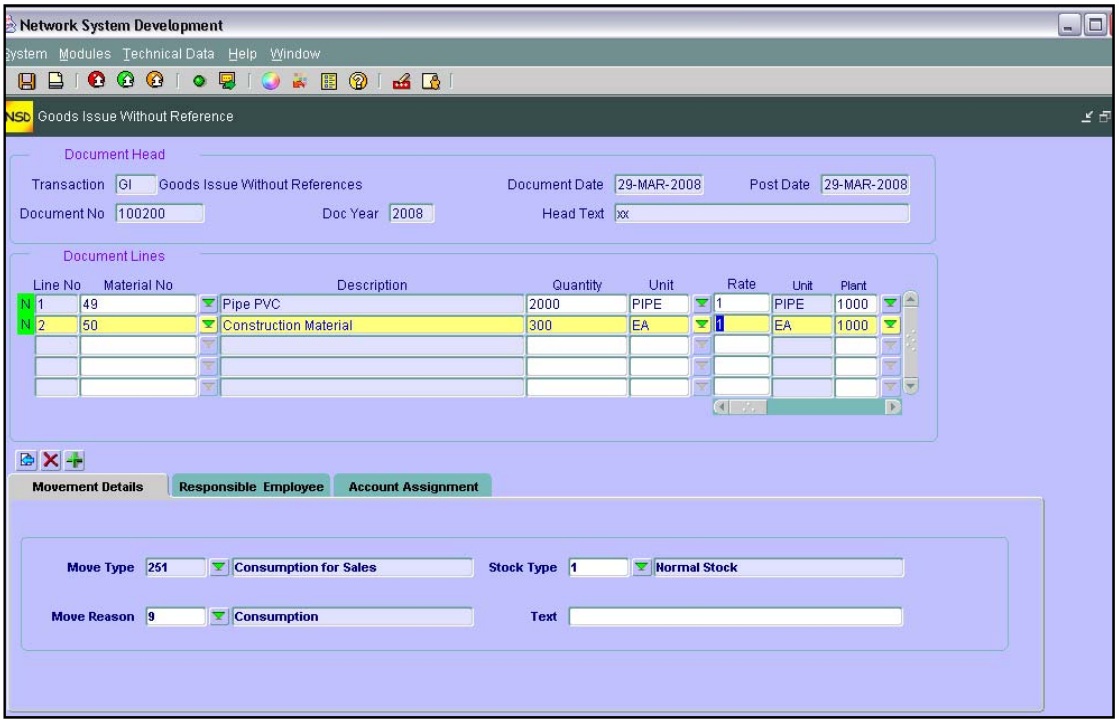

Transfer Stock

You can use this component to remove materials from storage in one storage location and place them in another storage location. Stock transfers can occur either within one plant or between two plants or company codes.

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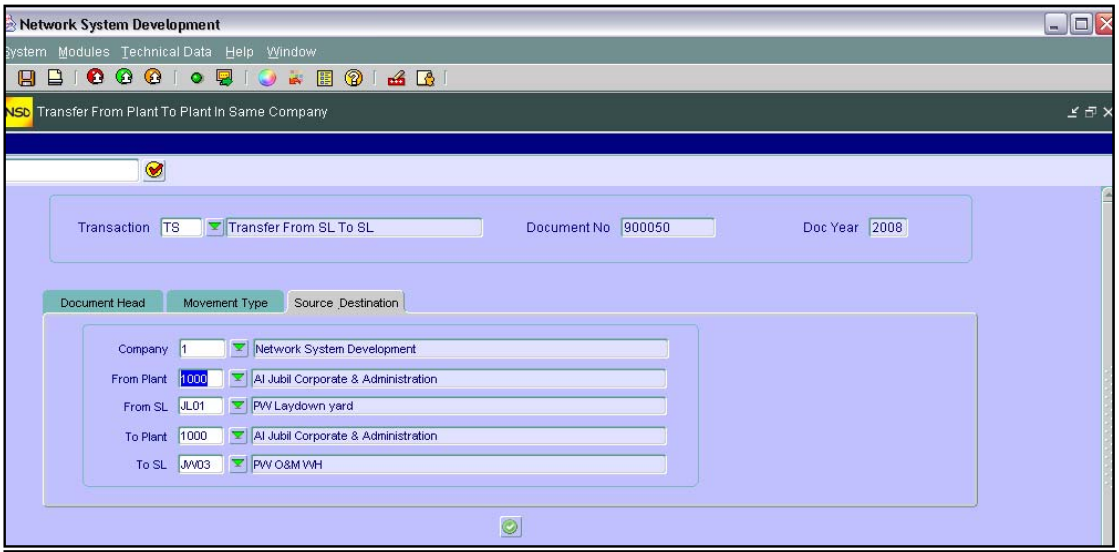

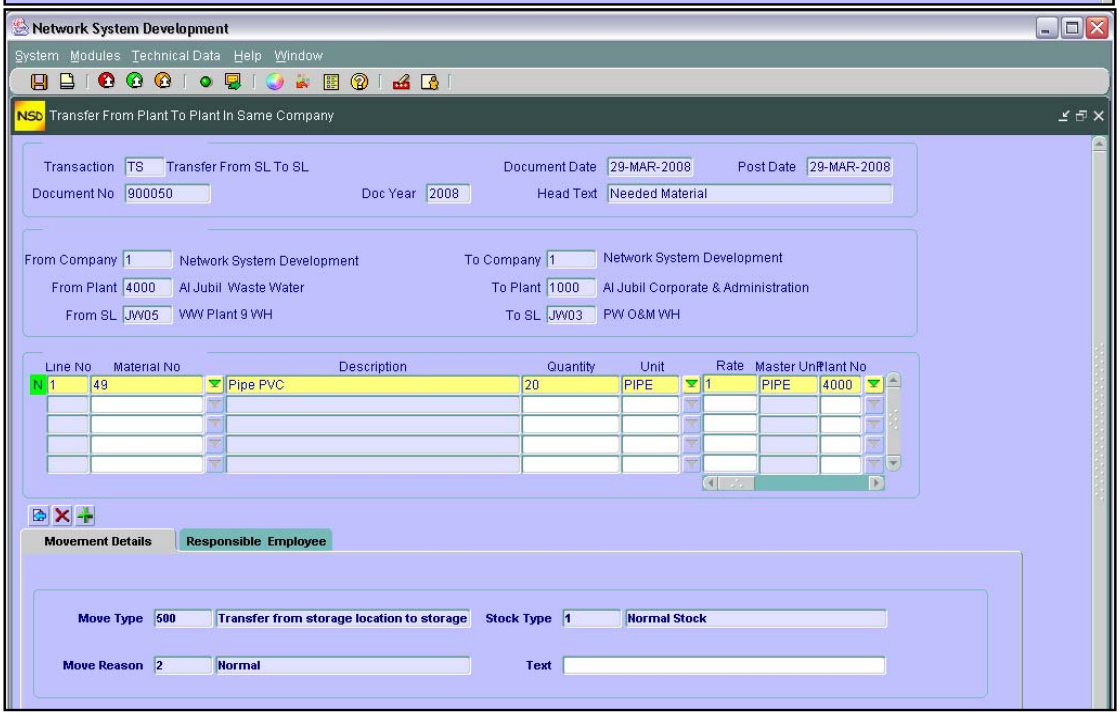

Materials Reservation

With this component, you make a request to the warehouse to keep materials ready for withdrawal at a later date and for a certain purpose. This simplifies and accelerates the goods receipt process.

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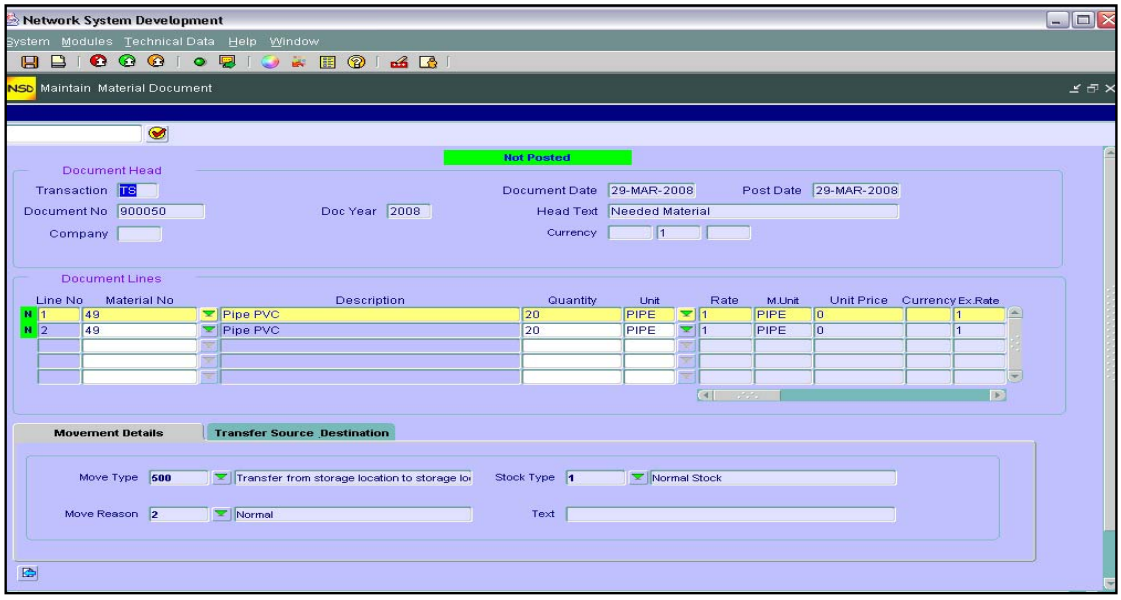
A reservation for goods issue can be requested by various departments for various account assignment objects (such as cost center, order, asset, etc.).



Stock Determination - Check Stock at any time

Stock determination enables you to implement various strategies to withdraw material for goods issues and stock transfers. You configure these strategies in Customizing. Based on the material requirements entered, the NSD ERP system determines how and when the material should be withdrawn, and from which storage locations and stocks.

When planning your materials requirements, it is not always important that you define the stocks and storage locations from which the materials are later to be withdrawn. Automatic stock determination takes care of this decision for you, thus preventing you from defining these parameters too early and restricting your business processes unnecessarily. The NSD ERP system does not determine the values you require until the goods movement is posted.

Based on the stock determination strategy you predefine, the system makes decisions on material withdrawal depending on the material, plant, and the business process.

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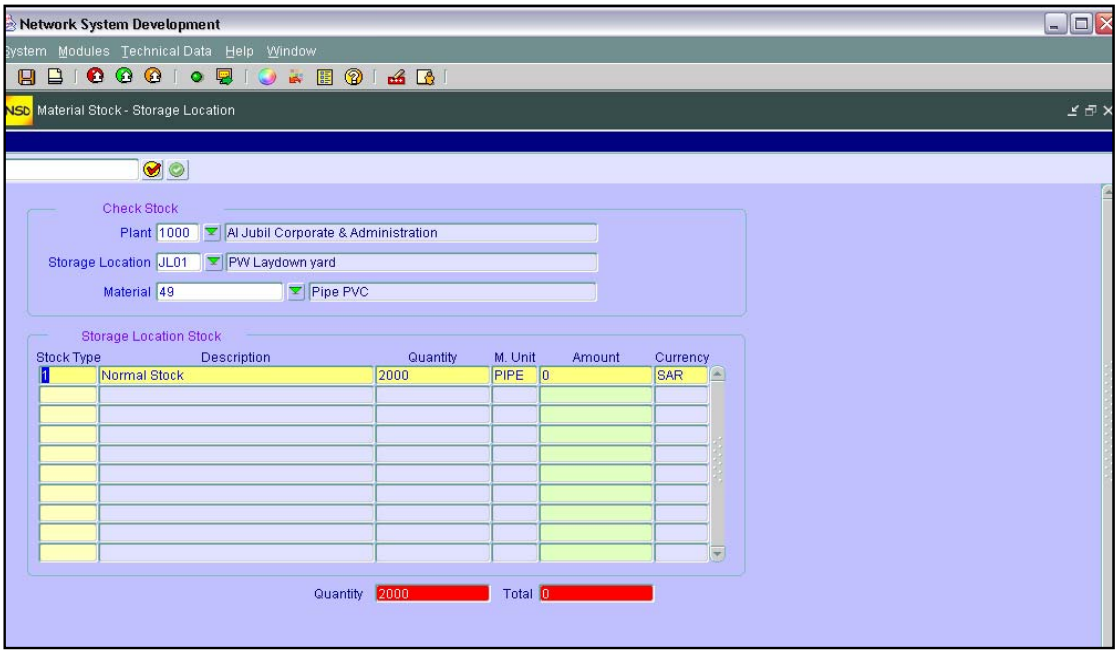

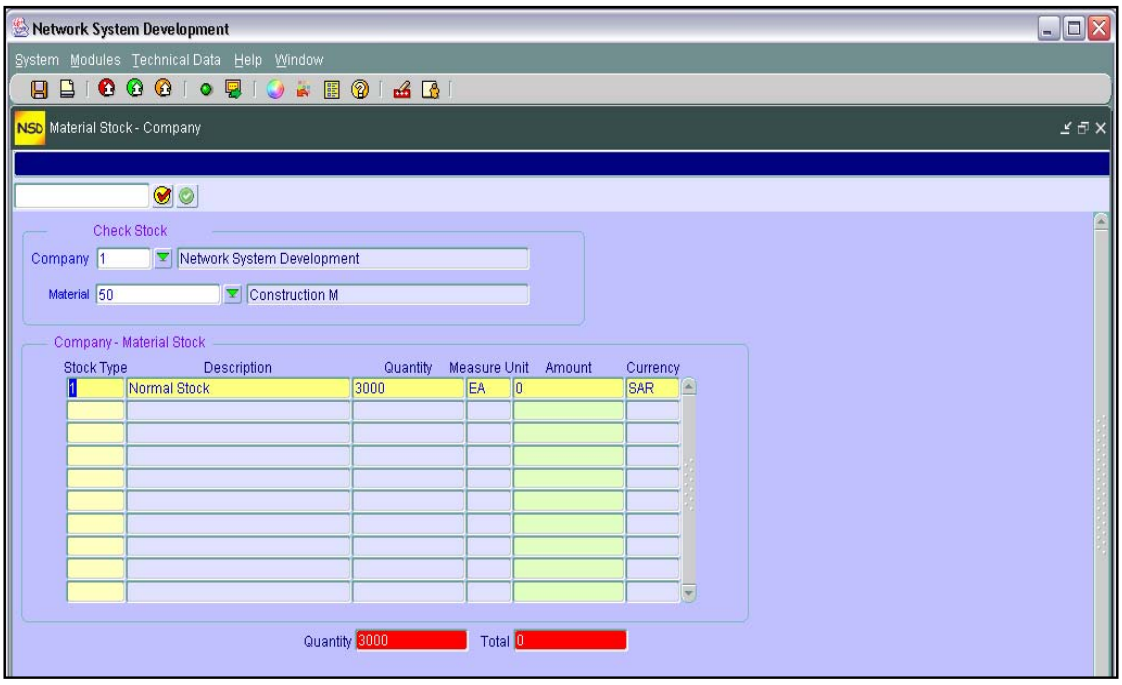

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Related Activities

Related to the ND BCS package NSD Teams assure you a complete cycle of services as:

1 NSD BCS SYSTEM Implementation
2 Training & documentation
3 Maintenance & Upgrade

Implementation

Offering proven methodologies, advanced software tools, and best practices to get your NSD solution up and running quickly to contribute into your business goals.

Work with the client to develop an implementation strategy focused on his key priorities.

Create an implementation plan that enables you to manage project scope and evaluate progress along the way.

NSD based implementation methodology

Training & Documentation

Two type of training are assured by NSD

1- Power Users Training
2- End Users Training

The above training are started form your acquisition of the NSD BSC until its complete implementation (GO LIVE),

Concerning the documentation, NSD assures you a detailed end users (System Navigation) manual and a power users customizing manual.

Maintenance & Upgrade

Our Services Maintenance gives the client various options, each designed to keep his NSD BCS SYSTEM solution up and running. These include: NSD Standard Support Includes system performance monitoring, proactive services, and access to NSD experts.

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