

Warehouse Management (WM)

Objective

To understand

- Warehouse concepts
- Terminologies in WM
- Movement types in WM
- Difference between WM and IM
- WM strategies



WM Concept



WM Concept

Warehouse management (WM) helps to identify the stock of a material at bin level.

It is a tool to assist in processing all goods movements and maintaining inventories in warehouse.



WM Integration

Warehouse management (WM) process are initiated by inventory management.

Apart from that, it is integrated with

SD Module

QM Module

PP Module



WM Integration with IM & SD

GR/GI and posting changes are initiated in IM and processed in WM

Shipping of SD Module integrates WM through delivery documents



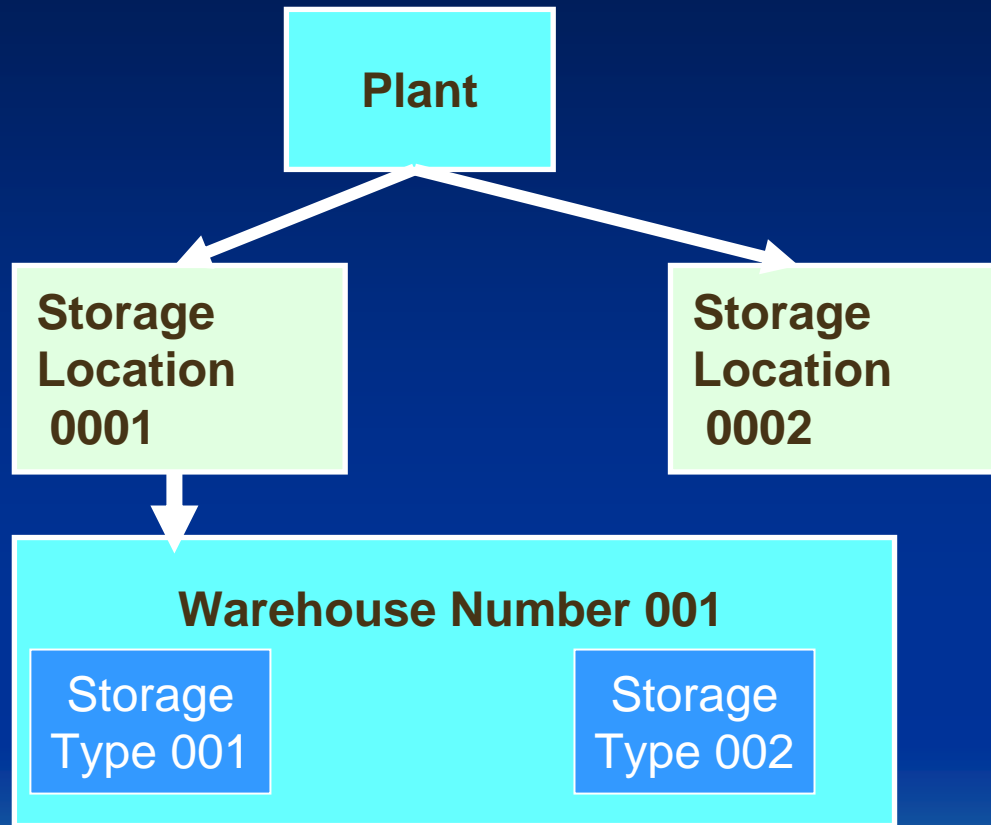
WM Integration with PP & QM

WM integration with QM allows to trace the material inspection lot which are stored in the ware house

Supply area to provide the material for production, integrates WM with PP



Organization Structure with WM



Storage location
Assigned to the
Warehouse



WM Terminologies



Terminologies in WM

Storage Location: -

Physical storage within a plant for storage and movement of material.

It will reflect value at storage location level.

Warehouse: -

Physical area designated inside storage location. It is not concerned with value.



Terminologies in WM

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Physical storage within a plant for storage and movement of material.

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Warehouse: -

Physical area designated inside storage location. It is not concerned with value.

Warehouse number uniquely identifies the warehouse.



Terminologies in WM

Storage Type: -

A grouping of storage according to its nature is storage type.

E.g. Rack storage, Bin storage and Shelf.

Storage Section: -

Logical grouping of storage type is storage section.



Terminologies in WM

Storage Bin: -

An individual location in the warehouse.

Quant: -

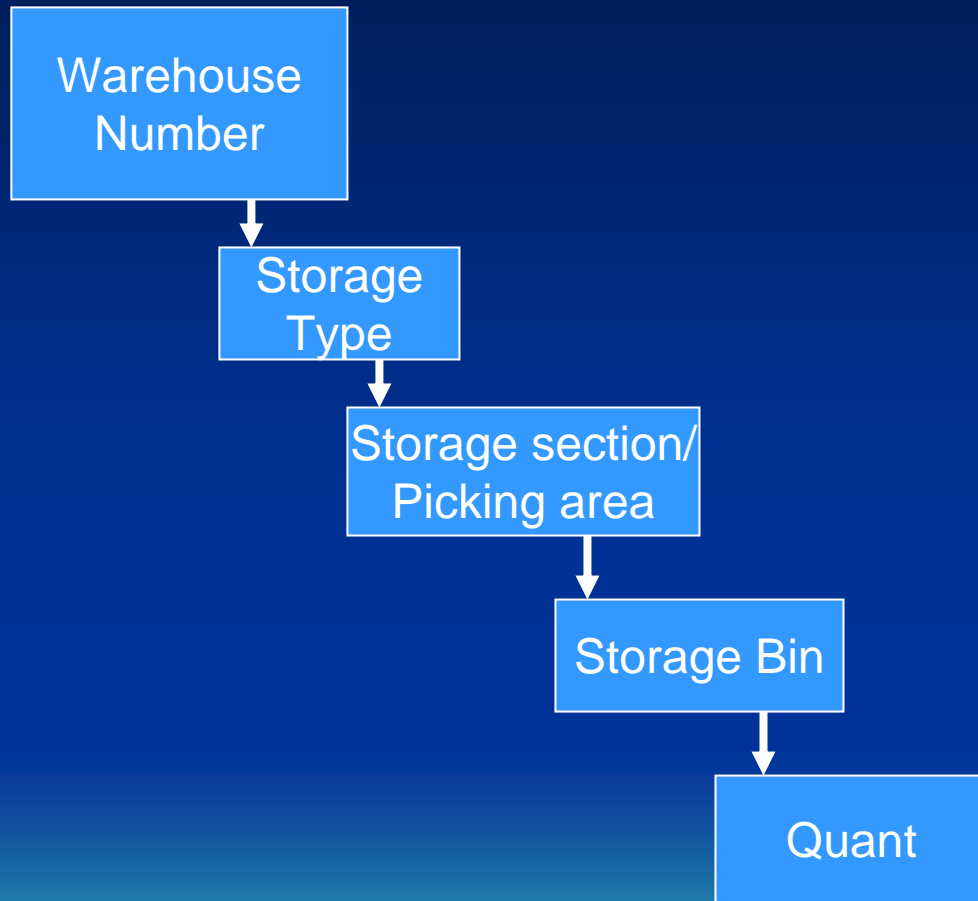
It is the material and bin combination.

Smallest level of storage in WM.

There may be many quants for one bin. I.e.
one bin can have more than one material.



Warehouse Structure



WM movement types



Movements in WM

Inventory Management movement triggers a movement in WM.

After IM movement, material posted in the interim storage type in the WM is known as logical storage type.

At this stage system creates Transfer request as a WM document.



Movements in WM

Transfer request (TR): -

It is a request to move material automatically triggered by the transaction on some other function which required movement of material.

E.g. GR, GI and Transfer postings in Inventory Management



Movements in WM

Transfer Order (TO): -

It is an instruction to move material in the warehouse.

It contains

- Material number

- Quantity

- Source location

- Destination location

Each TO must be confirmed.



WM Bin Location

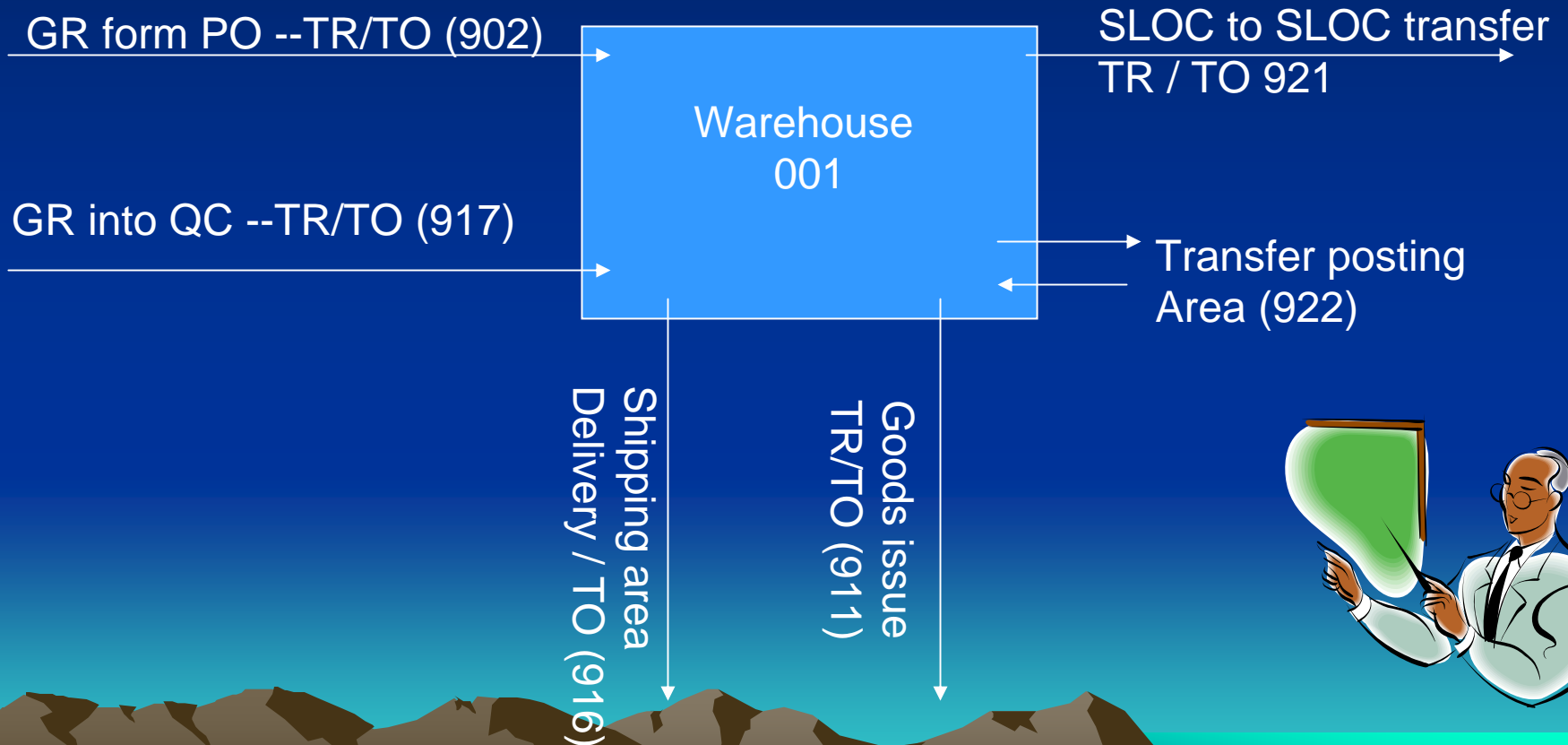
TR and TO contains the information about material number, bin location and quantity.

TR or TO created automatically while performing IM Goods movement related transaction & place the material in the interim storage type

Confirmation of TO ensures the issue/receipt of material in the right bin.



Interim Storage types



WM and IM Differences



Difference between IM & WM

IM

Company Codes

Plants

Storage Locations

Transaction

Material Document

Deliveries

WM

Warehouse

Bins

Quants

Storage Type

TR

TO

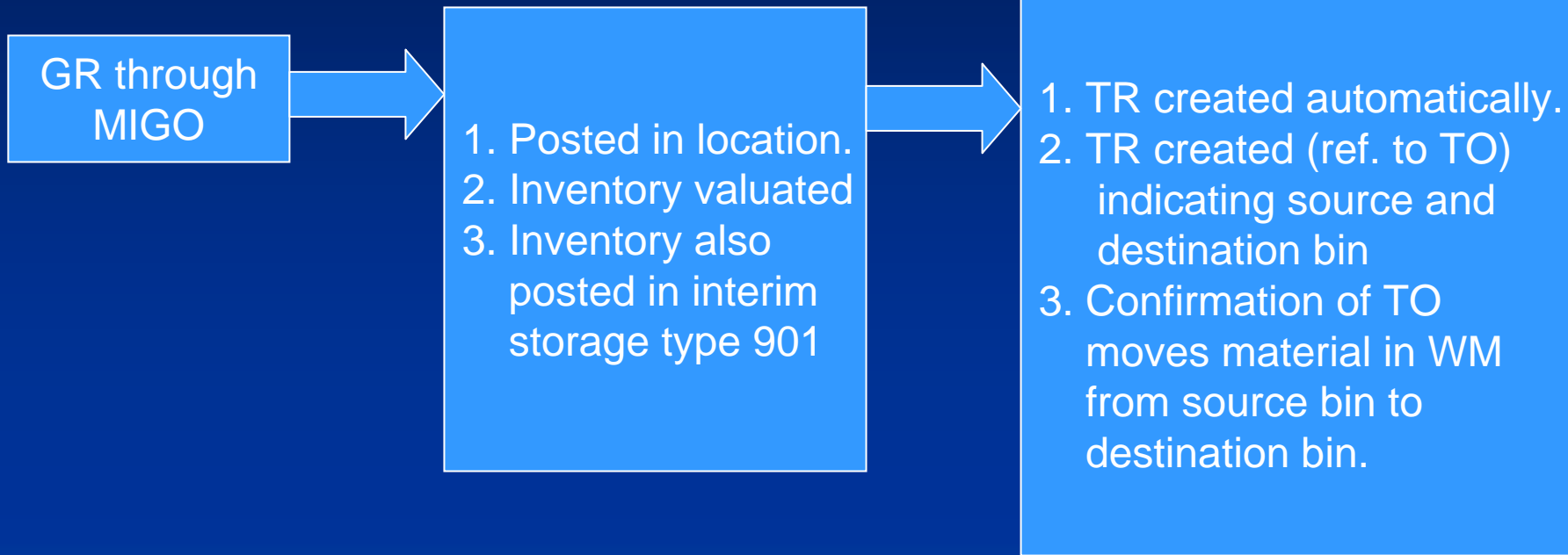


WM & IM Process for GR

Transaction

Inv.Mgmt.

WM Mgmt.



WM Strategies



Putaway and picking strategies

Putaway and picking strategies are used by the system to expedite the bin search effectively.

During Transfer order creation, system automatically defines the storage bin.

In addition to this, manual intervention is also possible.



Material Master data for WM

Material Master contains the WM views for material which are subjected to WM.

Similar to the storage location view, Warehouse views are a must to handle the material in respective warehouse.



Material Master data for WM

General data	
Base unit of measure	L
WM unit	
Unit of issue	
Proposed UoM frm mat	
Picking storage type	
<input type="checkbox"/> Batch management	
Haz. material number	
Gross weight	KG
Volume	
Capacity usage	/
<input type="checkbox"/> Appr. batch rec. req.	

Storage strategies	
Stock removal	<input type="checkbox"/>
Storage section	<input type="checkbox"/>
Special movement	<input type="checkbox"/>
2-step picking	<input type="checkbox"/>
Stock placement	<input type="checkbox"/>
Bulk storage	<input type="checkbox"/>
<input type="checkbox"/> Message to IM	
<input type="checkbox"/> Allow addn to stock	

Stragy info for Putaway & pickup



Material Master data for WM

Palletization data			
LE quantity	Un	SUT	
1.			
2.			
3.			

Storage bin stock			
Storage bin		Picking area	
Maximum bin quantity		Control quantity	
Minimum bin quantity		Replenishment qty	
Rounding qty			

Storage bin details



Summary

You must have understood

Warehouse concepts

Terminologies in WM

Movement types in WM

Difference between WM and IM

Warehouse strategies

