

Dynamics GP to Business Central

Supply Chain Deep Dive: Planning, Production &
Warehouse Management

Abhi Ghatak
Sr. Director of Microsoft Services, enVista



Session Agenda



Why Migrate Now?

The case for moving from GP to Business Central

Master Data Foundations

Items, BOMs, routing and vendor data mapping

Planning & MRP

Demand forecasting, planning worksheets, requisition workflows

Production Execution

Production orders, scheduling, shop floor reporting

Warehouse Management

Zones, bins, picks, put-aways, mobile scanning

Infrastructure & Integration

Power Platform, M365, Copilot, embedded AI

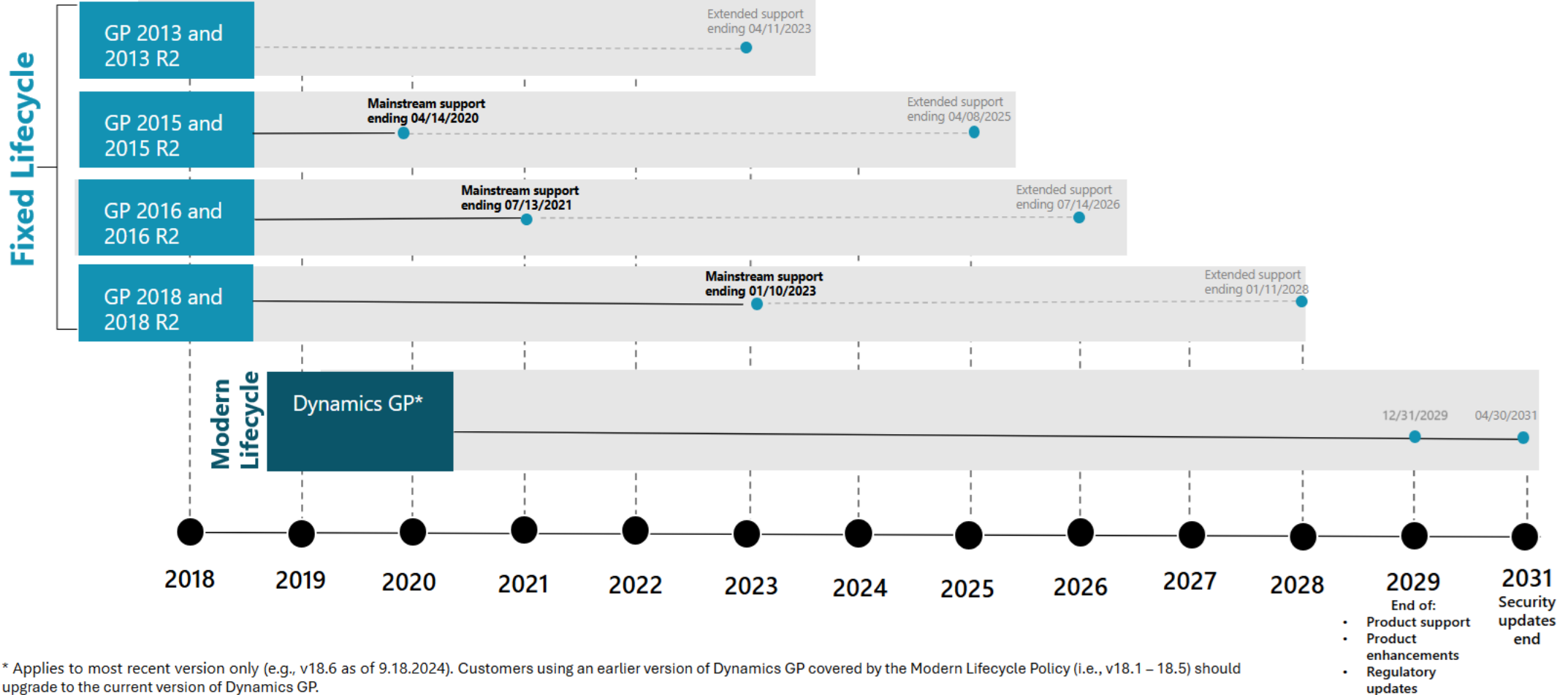
ISV Landscape & Implementation

Typical ISV Solutions and AppSource extensions

Why Migrate Now?

The strategic imperative for moving off Dynamics GP

Dynamics GP versions governed by Fixed and Modern Lifecycle



GP vs. Business Central at a Glance



Capability	Dynamics GP	Business Central
Deployment	On-premises only	Cloud-first SaaS + on-prem option
Updates	Manual upgrades every 2-3 years	Continuous monthly updates
Integration	Custom-built middleware	Native Power Platform & M365
AI / Copilot	None	Embedded Copilot across modules
Mobile	Limited 3rd party	Native responsive web client
ISV Ecosystem	Declining GP add-ons	Growing AppSource marketplace

Master Data Foundations

Getting your data right before migration

Master Data: GP to BC Mapping



Item Card (Inventory)



Item Card with Item Tracking & Variants

Bill of Materials



Production BOM with Versioning

Routing (3rd Party or GP MFG)



Native Routing with Work & Machine Centers

Vendor / Site Setup



Stockkeeping Units (SKU) per Location + Vendor Catalog

Data Integrity: Clean Before You Migrate



Cleanse

- Deactivate dormant items
- Reconcile on-hand quantities
- Standardize UOM codes
- Remove orphan BOMs

Validate

- Cross-check cost groups
- Verify vendor catalogs
- Audit lot/serial policies
- Confirm lead times

Enrich

- Add item categories
- Define item attributes
- Set replenishment params
- Map to BC dimensions

Planning & MRP

Demand forecasting and material requirements planning

MRP: What Changes from GP to BC



Dynamics GP MRP

- Basic MRP module with limited visibility (GP MFG)
- Manual workarounds for demand grouping
- Separate purchase / production suggestions
- No built-in action messages
- Regenerative planning only

Business Central MRP

- Planning Worksheet with action messages
- Regenerative + net-change planning
- Unified requisition workflow
- Demand forecast integration
- Safety stock & reorder point automation

The Planning Worksheet in Business Central



Action Messages

BC tells you what to do: new, reschedule, cancel, change qty - replacing guesswork with decisions.

Net-Change Planning

Only recalculates items affected by changes since last run, dramatically reducing processing time.

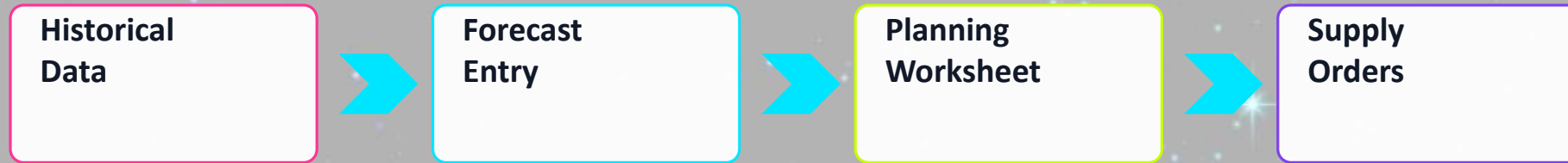
Planning Flexibility

Set unlimited or none per item to control whether BC can reschedule existing supply orders.

Carry Out Actions

One click to convert plan suggestions into purchase orders, production orders, or transfer orders.

Demand Forecasting in BC



What's New in BC

- Sales and production forecasts feed directly into the planning worksheet
- Forecast by item, location, variant, and component
- Consumption logic prevents double-counting actual demand against forecast
- Copilot-assisted forecast suggestions based on historical patterns (preview)

Requisition vs. Planning Worksheet



Planning Worksheet

- Runs full MRP calculation
- Considers all demand sources
- Generates action messages
- Handles production + purchase
- Best for: Planners running MRP

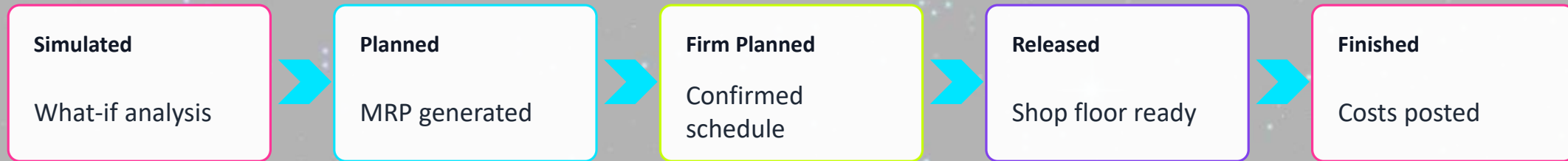
Requisition Worksheet

- Purchase-focused replenishment
- Can pull from planning results
- Applies vendor selection rules
- Supports approval workflows
- Best for: Procurement teams

Production Execution

From production orders to shop floor reporting

Production Order Lifecycle in BC



GP Difference

GP uses Manufacturing Order Processing with fewer statuses and no simulated order concept. BC adds granular status control, capacity-aware scheduling, and output/scrap posting at each operation step.

Production BOMs & Routings



Production BOM

- Multi-level BOM with versioning
- Phantom BOM support for subassemblies
- Scrap % at component level
- Routing link codes for operation-specific consumption
- BOM comparison and where-used analysis

Routings

- Work Centers with capacity calendars
- Machine Centers (sub-units of work centers)
- Setup time + run time per operation
- Concurrent capacity for parallel operations
- Routing versions for process changes

Production Scheduling: Forward & Backward

Forward Scheduling

Starts from earliest available date and calculates the finish date. Use when you need to quote lead times or find the earliest possible completion.

Backward Scheduling

Starts from the due date and works backward to find the latest start date. Default in BC - minimizes WIP inventory and aligns with just-in-time.

BC Advantage Over GP

BC scheduling respects work center calendars, capacity constraints, and concurrent capacities natively. In GP, this level of scheduling typically required a third-party add-on.

Shop Floor Reporting & Output Posting



Output Journal

Post operation completion, run time, setup time against each routing step. Automatically updates capacity ledger entries.

Consumption Journal

Post material consumption per production order. BC supports forward and backward flushing methods for automated posting.

Flushing Methods

Manual, Forward, Backward, or Pick + Forward/Backward. Controls when and how components are auto-consumed.

Scrap Tracking

Post scrap quantities and scrap codes at the operation level. Feeds into variance analysis and production costing.

Production Costing & Variance Analysis



Material Cost 40%



Capacity Cost 25%



Overhead 20%



Subcontracting 15%



Key Variance Types in Business Central

Material Variance

Difference between expected and actual component consumption

Capacity Variance

Difference between standard and actual work/available order time

Subcontracting Variance

Difference between expected and received subcontractor costs

Overhead Variance

Allocated overhead vs. actual overhead absorbed

Warehouse Management

Zones, bins, picks, put-aways and modern mobility

Warehouse Management: GP vs. BC



GP Warehouse

- Bin tracking available but basic
- No native directed put-away
- Relies on ISVs for advanced WMS
- Limited mobile device support
- Manual pick ticket printing

BC Warehouse

- Multi-tier: basic to advanced WMS
- Directed put-away and pick
- Zone and bin ranking logic
- Native barcode scanning support
- Warehouse shipment/receipt flows

BC Warehouse Complexity Levels

Level 1

No WMS

Inventory picks &
put-aways
Posting from source
documents

Level 2

Basic

Require pick/put-
away from orders
Bin-level tracking

Level 3

Advanced

Warehouse receipts
& shipments
Pick/put-away
worksheets

Level 4

Directed

Zone and bin ranking
Full directed put-
away & pick

Choose the level that matches your operational complexity - you can upgrade tiers per location.

Zones, Bins & Warehouse Operations



Zones

Logical groupings within a warehouse, such as Receiving, Storage, Shipping, and QC. Each zone has a bin type that controls item flow.

Bins

Physical storage locations within zones. BC supports fixed bins, default bins, and bin ranking for pick/put-away prioritization.

Picks

System-generated pick instructions route workers to the correct bin using ranking, FEFO, or FIFO logic. Supports partial picks.

Put-Aways

Directed put-away suggests the optimal bin based on zone rules, bin capacity, and item-specific bin content rules.

BC's Browser-Based Mobile Experience

- Responsive web client works on any device - no app installation
- Native camera-based barcode scanning, no dedicated hardware
- Warehouse Employee role center optimized for mobile
- Scan items, bins, and lots directly into picks, put-aways, and counts
- Power Apps integration for custom mobile workflows
- Offline capability via ISV extensions such as Tasklet Factory

Infrastructure & Integration

Power Platform, M365, and embedded AI

Replacing GP Workarounds with Power Platform



Power Automate

Replace GP macros and VBA scripts with cloud-based approval flows, notifications, and cross-system integration.

Power BI

Embedded dashboards replace GP SmartList and custom SSRS reports. Real-time data with drill-through to BC transactions.

Power Apps

Build custom mobile apps for shop floor data capture, quality checklists, and inventory checks - connected via API.

Copilot

AI-assisted bank reconciliation, late payment prediction, sales forecast, and inventory suggestions - embedded in BC.

Microsoft 365 Integration



Teams Integration

Share BC records, run approvals, and receive notifications directly in Teams channels. No context-switching.

Outlook Add-in

Create sales quotes, view customer history, and log interactions without leaving your inbox.

Excel Integration

Edit BC data in Excel with live write-back. Perfect for bulk updates to item cards, pricing, and planning parameters.

OneDrive / SharePoint

Attach files to any BC record. Document management flows automatically into your M365 environment.

ISV Landscape

AppSource ecosystem

ISV Landscape: GP Add-ons vs. BC Native + Extensions



Capability Area	Dynamics GP	Business Central Native	BC AppSource / ISV
WMS	PanatrackerGP, CSSI, HighJump	Basic to Directed WMS, zones, bins, picks/put-aways	Insight Works, Tasklet Factory, Lanham
Planning & MRP	Basic MRP module, limited visibility	Planning Worksheet, action messages, net-change planning	Netstock, EazyStock
Production & Scheduling	GP Manufacturing + add-ons	Native BOMs, routings, capacity scheduling	Netronic, PlanetTogether
EDI / B2B	TrueCommerce, DiCentral	Basic APIs, limited native EDI	TrueCommerce, SPS Commerce, Lanham
Quality	Quality Essentials, custom	Limited native QA tracking	Insight Works QC, STAEDEAN, MetaQC
Shipping & Logistics	UPS/FedEx ISVs, Pacejet	Basic shipping capabilities	Dynamic Ship, Lanham, ProShip
Inventory Optimization	StockIQ, planning add-ons	Reorder points, safety stock, SKUs	Netstock, StockIQ
Financial Enhancements	Mekorma, Binary Stream	Strong core finance, dimensions, multi-ledger	Mekorma, Binary Stream
Reporting & Analytics	Management Reporter, SSRS	Built-in reporting + Excel integration	Power BI, Jet Reports, Solver
CRM / Sales	Limited or external CRM	Native integration with D365 & M365	Salesforce, HubSpot connectors
eCommerce	Magento, WooCommerce integrations	Shopify connector	Sana Commerce, BigCommerce
Integration / Middleware	eOne SmartConnect, custom APIs	Native APIs, Power Automate	Celigo, Boomi, MuleSoft
Automation / Workflows	VBA, macros, SQL jobs	Native workflows, approvals	Power Automate