INSIGHT WORKS

MXAPS

for Microsoft Dynamics 365 Business Central

★★★★★ **5.0 on Microsoft Marketplace** · **Over 500 Installs**

MxAPS

DRIVE MANUFACTURING EXCELLENCE WITH ADVANCED FINITE CAPACITY SCHEDULING IN BUSINESS CENTRAL.

A scheduling engine that sequences production orders against real machine capacity and returns a forward schedule the shop floor can work to, instead of a plan that someone has to repair by hand.

MxAPS is Insight Works' finite capacity scheduling extension for Business Central. It takes the production orders you already have, applies the sequencing rules your plant already follows, and returns a forward-scheduled result that reports what will run late before the shop floor finds out. Native Business Central schedules backward from the due date at infinite capacity, so a work center can come back needing more hours in a day than exist. MxAPS replaces that manual cleanup with a run, and writes dates back to Business Central only when you decide to commit them.

Why it holds up

Scheduled against real capacity. Operations are placed forward from a start date you choose, against the actual capacity of each work center and machine center, so the result respects hours that exist rather than hours the due date would like.

Your sequencing rules become system logic. User-defined scheduling rules sort operations hierarchically, for example by due date, then class, then operation number, so the plant's sequencing judgment lives in configuration instead of in one planner's head.

Late orders show up before the floor finds them. Every schedule result reports late, early, and on-time line counts, along with queue times, critical ratio, slack time, and machine load detail for the people who need to dig in.

Alternate machines, chosen on merit. An operation can carry a group of eligible machines, each with a preference, quantity gates, and setup and run time multipliers, so a slower machine is chosen when it produces a better overall schedule.

Nothing changes until you commit. Each run creates a numbered, uncommitted result with its own metrics. Compare alternatives, adjust a priority or class, reschedule, and write dates back to Business Central as a separate, deliberate action.

Material, tooling, and labor as constraints. Secondary constraints let a schedule respect a mold, an operator skill, or a component that has not arrived, rather than treating machine time as the only limit.

Who's on it

Production planners & schedulers

Generate the schedule, review late and early counts, adjust priority or class, and commit the result.

Plant & operations managers

Judge whether the plant can absorb the current order book, and compare reruns to test a capacity change.

Production engineers

Define alternate machine groups, production cells, and transfer times between work centers.

Shop floor supervisors

Work from the committed schedule as a per-machine dispatch list, filtered to their own work center.

Business Central partners & consultants

Bring routings, work centers, and machine centers into shape and configure the scheduling model.

Free to install and evaluate. MxAPS installs at no cost from Microsoft Marketplace, so you can try it in a sandbox before committing to production.

Backed by over 800 resellers. Insight Works works through a global network of more than 800 Business Central resellers who can help consult, implement, and support a deployment. **See the Insight Works reseller directory**.

MXAPS for Microsoft Dynamics 365 Business Central

SCHEDULING MODEL

- **Production cells** define scheduling scope, with an explicit processing order
- Forward scheduling from a chosen start date and time, for a chosen duration; about 30 days suits a detailed shop floor schedule

SCHEDULING RULES & SEQUENCING

- User-defined rules sort operations hierarchically by processing order into a rank per operation
- Lot splitting, order sets that keep matching operations on one machine, and lot and order families that save setup time

ALTERNATE MACHINES

- Machine alternate groups per operation across work centers and machine centers
- Each alternate carries a preference duration, an active flag, minimum and maximum order quantity gates, and setup and run time multipliers

CONSTRAINTS

- **Secondary constraints:** material, tooling, and labor, with a defined placement for each: work center, item, production order component, or machine and operation
- Item Card settings control whether an item constrains the schedule or is only tracked, with fence type, tolerance, and minimum and maximum levels
- Transfer times between specific work center and machine center pairs, separate from the operation-level move time in Business Central
- A maintenance window, once another app or a person has determined one is needed, is scheduled against the same capacity as production

RESULTS & DISPATCH

- Versioned, numbered results; one is active, and each shows a KPI FactBox: order lines, unscheduled lines, late, early, and on-time counts, total setup and run hours, start and end date-times
- Detail tables for reporting and dispatch: Operation Schedules, Machine Load Details, and Order Attribute Schedules
- Edit a result's class, priority, order set number, split quantity, or machine, then run Reschedule

BUSINESS CENTRAL LICENSING

- Free to install and evaluate from Microsoft Marketplace; most environments start in a sandbox for configuration before go-live
- Subscription, sized by the number of production orders scheduled at one time, in tiers; not by named user and not by location
- No limit on schedule runs inside a tier, so cost does not rise with how often the plant reschedules
- Premium Azure hosting may apply for very complex environments, above roughly 20,000 operation combinations scheduled at once
- Microsoft licensing is separate: a valid Business Central user license is required

INTEGRATION & INSTALLATION

- Installs from Microsoft Marketplace like any other Business Central extension; delivered as a Business Central extension only
- The scheduling engine runs as a remote service hosted in Azure, reached from Business Central with an API key and a service URL
- Assisted setup wizard with a base setup option, a do-nothing option, and a base-plus-demo-data option for test and training environments
- Committing a result writes starting and ending date and time on production order routing lines, and nothing else

PREREQUISITES & COMPATIBILITY

- Routings, work centers, and machine centers must already be in place; if routings are in good shape the wizard may be all you need, and if they are not, that is the project
- Every machine center must belong to a work center; a number series and at least one schedule configuration are required
- Production cells and alternate groups have no effect until assigned to work centers, machine centers, and routing operations

SUPPORT & RESOURCES

- Knowledge base at kb.dmsiworks.com with its own MxAPS section: release notes, install guide, user guide, a troubleshooting section, and an error message reference
- Insight Works resellers can consult on scheduling configuration and implementation
- Lists and tables inside Business Central; no visual interface or report objects of its own

DATA & PORTABILITY

- Results are uncommitted by default; the only data written back to Business Central is routing line dates and times, on commit
- Identifying data is abstracted as globally unique identifiers when sent to the scheduling engine in normal operation

ALSO FROM INSIGHT WORKS

Insight Works builds 30+ apps for Microsoft Dynamics 365 Business Central, concentrated in these areas of manufacturing and distribution. If Business Central has a gap, there's a good chance we already have a solution.

Warehouse & Inventory Management
Barcode-driven receiving, put-away, picking, cycle counting, and license plate handling.

Shipping & Fulfillment
Carrier rate shopping, pick-to-ship execution, and shipment tracking.

Quality Control & Compliance
Inspections, test management, and quality documentation.

Production Planning & Scheduling
Capacity-aware scheduling, planning worksheets, and demand forecasting.

Shop Floor Execution & Maintenance
Shop floor data capture, machine maintenance, and production analysis.

Point of Sale & Data Tools
Counter sales, document attachment, label printing, and bulk data import/export.

See all Insight Works apps for Business Central

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© 2026 Insight Works. E&OE. · Datasheet updated: October 2026