

An efficient supply chain process relies on an effective method of finding possible gains and innovations in various supply chain plans including manufacturing, replenishment, capacity, operations, fulfillment, inventory, distribution, transportation, and financials. The speed at which a problem in a plan can be corrected relates directly to how fast it can be isolated—improving the overall process. The faster a constraint can be identified, the faster it can be isolated. Conversely, the speed at which an opportunity is found relates directly to how fast the opportunity can be capitalized on.



i2 Performance Manager

i2 Performance Manager™ is designed to provide a way to create a multi-perspective view of i2 plan and execution data, as well as the ability to “drill down” to a detailed level in order to do a root-cause analysis. i2 Performance Manager addresses the integrated analytics requirements of i2 products by focusing on the interdependencies among the overall processes of anticipating market demand, positioning enterprise resources to meet demand, and fulfilling demand as it is realized.

i2 Performance Manager complements the i2 family of planning engines by supporting:

Reporting

The solution provides the ability to create multi-page standard formatted and sorted reports, such as demand orders or operations summary details that can be scheduled and delivered automatically to end-users. Users can create their own reports using the wizard-based web interface.

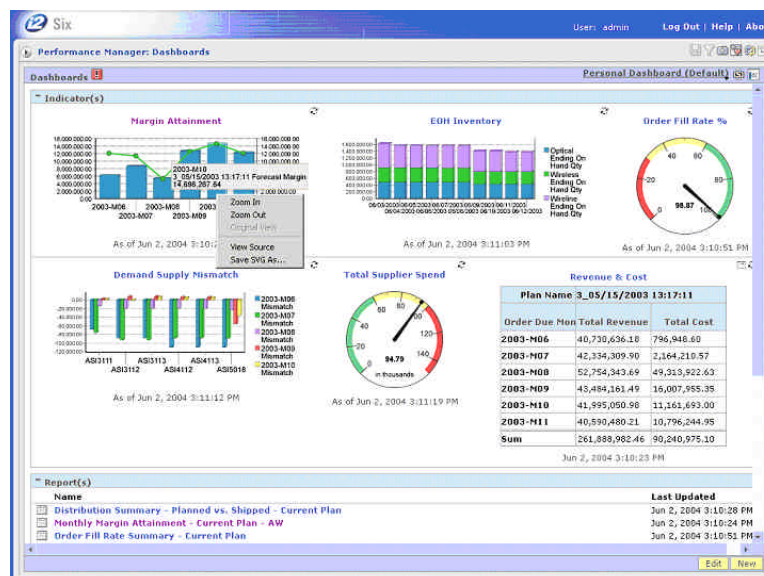
“What-if” scenario analysis

i2 Performance Manager allows an organization to compare multiple plans (constrained versus unconstrained and plans with different constraints) to determine the most optimized plan to execute—or to identify limitations.

Cross-functional analysis

i2 Performance Manager consolidates plan and execution data generated by i2 planning/execution systems including i2 Demand Planner,™ i2 Factory Planner,™ i2 Master Planner,™ i2 Demand Fulfillment,™

Figure 1



i2 Transportation Manager,™ and i2 Replenishment Planner.™ A unified view is then provided to the planner. This is designed to enable closed-loop planning by allowing the planners to compare the output of one planning system against another, validating the supply chain plan against the execution/actual data for any imbalances. Re-planning can be done if required. For example, a demand forecast can be compared against the supply plan, and modifications can be completed as necessary.

Plan accuracy

The i2 Performance Manager data model allows a planner to bring actual data from execution systems to conduct “plan-to-actual” comparisons and to determine plan accuracy or changes required in the planning process. For example, forecast accuracy or projected versus actual procurement can be reviewed.

Plan trending

i2 Performance Manager maintains the history of plans as well as execution data in the data warehouse, thereby enabling the plan trending or historical analysis reports such as a forecast waterfall report.

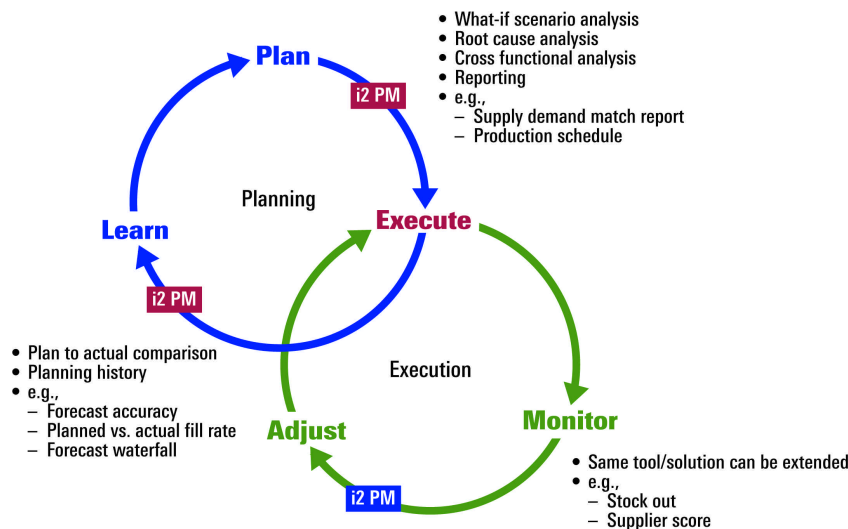
Multi-dimensional analysis

i2 Performance Manager uses multi-dimensional star schema/data warehouse as the underlying data model to provide visibility into plan data. Plan outputs are available at most detailed dimension levels including SKU, day, or plants. The multi-dimensional capability of i2 Performance Manager allows the planner to navigate the data at a higher level for categories such as product groups, distribution center, and month. This allows slicing/dicing of data by different dimension, resulting in being able to drill down into specific details in case of an exception.

Key reporting and analytic UI functionalities

–**Dashboards:** Users can create personalized dashboards with a set of key performance indicators such as supplier score or inventory turns, reports, or any shared documents. Any alert triggered due to an exception is also accessible through the dashboard. The dashboard acts as the central monitoring console for users.

Figure 2



- Analytic workflows/guided analysis:** This tool allows a user to connect a set of associated reports to form a guided analysis or analytical workflow such as a root-cause analysis workflow to find out the bottleneck resources, or excess/short parts. The context can be passed from one report to another in the workflow, helping narrow the problem domain.
- Alerts:** One can create an exception on any metric such as low order fill rate or, negative inventory level. The system can be configured to receive an email alert with the report attachment.
- Exports:** Reports can be exported to file types including .csv, .pdf, or .xls.
- Email:** The tool offers the capability to email a report as an attachment.
- Formulas/computed metrics:** The tool has the ability to create new computed metrics at report or schema level using the provided base metrics.
- Filters and ranking** can be done by metrics and attributes.
- The tool has rich **formatting, sorting and charting.**
- The tool offers **report, metric and data security.**
- Report scheduling:** Time- and event-based scheduling of reports is possible.

i2 Performance Manager is a packaged analytic solution that comes with:

SCM analytics data model/data marts

i2 Performance Manager comes with a comprehensive data warehouse that models more than 350 KPIs, more than 100 reports, dashboards, and a guided analysis for supply chain analytics.

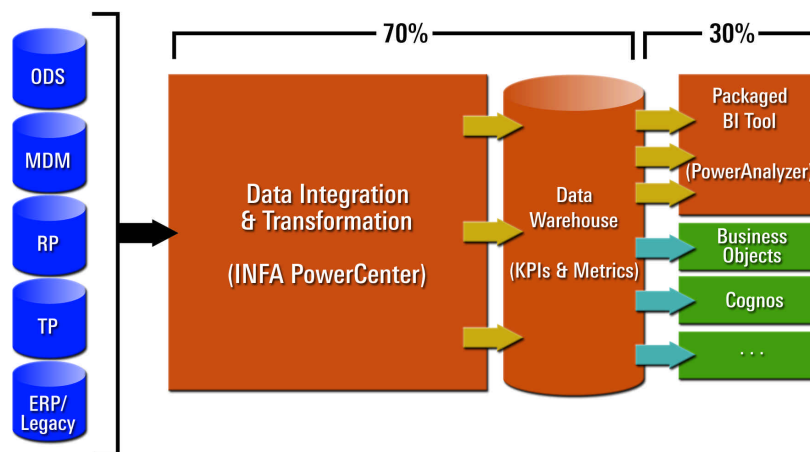
Business adapter for i2 applications (ETL Adapter)

The solution comes with out-of-the-box ETL adapter for i2 solutions, such as the ETL library, to transfer data from i2 planning/execution application persistence (ODS) to i2 Performance Manager Data Warehouse. ETL is designed to support external data loading. It uses industry-standard Informatica PowerCenter as the ETL tool.

i2-branded Informatica PowerAnalyzer as the report delivery platform

i2 Performance Manager uses Informatica’s web-based analytics tool, PowerAnalyzer, to deliver reports and analytical functions. The solution is designed to support any other standard business intelligence tool in the market.

Figure 3



i2 Performance Manager packaged analytics applications can broadly be classified into the following subject areas/data marts:

SCM analytics

–Demand analysis

Sample metrics/KPIs: Various forecasts (consensus, sales, operational) in terms of quantity and dollars, seller allocation, net committed forecast, forecast accuracy, or demand shortage exceptions

–Procurement analytics

Sample metrics/KPIs: Supplier commit value/quantity, planned PO quantity, open quantity, backordered quantity, planned ship/planned delivery/promised delivery date, supplier fill rate, or supplier spend

–Inventory analysis

Sample metrics/KPIs: BOH/EOH inventory, inventory turns, GMROI, supply/demand quantity, safety stock quantity/days, carrying/inventory/storage cost, excess inventory, or inventory shortfall exception

–Operations analysis

Sample metrics/KPIs: Supply-demand mismatch, operation costs (manufacturing, procurement, in-out costs), available capacity, resource utilization, planned versus produced quantity, average run rate, overload/bottleneck resources, or supply-demand pegging

–Fulfillment analysis

Sample metrics/KPIs: Short/late/early orders, on-time orders, requested/promised/planned ship dates, sales revenue, sales margin, order fill rate, perfect order fulfillment, mismatch orders, planned versus ordered quantity, open quantity, or backordered quantity

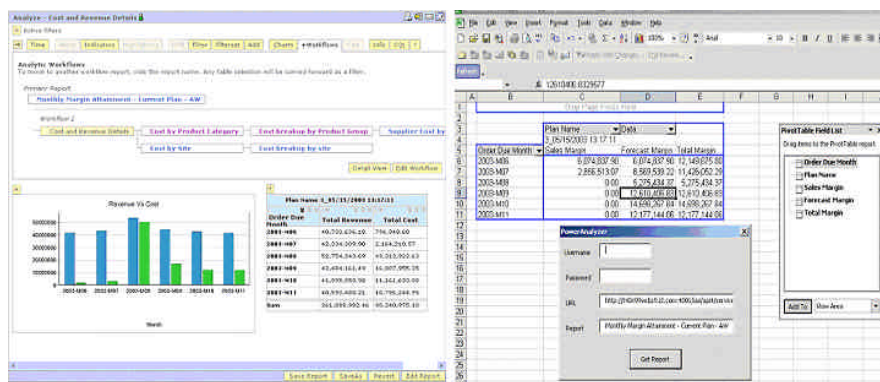
–Distribution analysis

Sample metrics/KPIs: In-transit shipment, transit cost, transportation lead time, order lateness, short orders, average lateness, or promised/planned ship date

–Profit optimization analysis

Sample metrics/KPIs: Sales/forecasted revenue, sales/forecasted margin, operation costs (material, procurement, in, out, transportation cost), net present value, or forecast backlog cost/forecast lateness cost

Figure 4



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–Retail analytics: Replenishment, inventory, forecasting, procurement and exception analysis

Sample metrics/KPIs: Planned replenishment, inventory positions, forecasts, suggested and actual PO values, supplier score, exception — stock outs, and excess inventory

–Transportation analytics: Load, shipment/shipment leg, stop and charge detail analysis

Sample metrics/KPIs: Tender responsiveness, carrier delivery performance, shipments/stops per load, or average transit cost

–Inventory optimization analytics: Inventory, segmentation, shipment, and segmentation analysis

Sample metrics/KPIs: Re-order point, target/desired CSL, safety stock, mean demand, back-order penalty, days of coverage, or manufacturing cycle time

i2 Solution

i2 Performance Manager
Version 6.1.3

i2 Datasheet **5**

Supported hardware and software platforms*

Client platforms

- Windows 2000
- Windows XP

Browser

- MS Internet Explorer 5.5, MS Internet Explorer 6.0

Server/infrastructure platforms

- Windows 2000
- HP UX 11
- Solaris 9
- AIX 5.1

Database server

- Oracle 9i
- DB2 8.1

Application server

- Weblogic server 8.1 SP1 ; WebSphere App Server 5.1
- Recommended hardware
 - o 2-4 CPU
 - o 2 GB RAM
 - o CPU speed—1 GHz

ETL

- Informatica PowerCenter 6.2.1
- Recommended Hardware
 - o 4-6 CPU
 - o 2-4 GB RAM
 - o CPU Speed—1 GHz

LDAP server

- iPlanet 5.1

*Above is recommended configuration for a typical implementation. Hardware requirements will vary depending upon the solution requirements such as data volume and number of users.



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