

# SOLUTION PROFILE

## MANUFACTURING ASSESSMENT AND PLANNING SERVICES

### MAP SERVICES - OVERVIEW

Manufacturing Assessment and Planning or MAP, is a series of consultative service offerings provided by Rockwell Automation that lead you through an assessment of your current manufacturing state that can lead to manufacturing performance solution projects.

MAP Services temporarily augment your existing plant and corporate staff with experienced professionals that have a deep understanding of information, process, and controls automation. Subject matter professionals accelerate your ability to identify, justify and implement value-based, manufacturing projects.



#### ASSESSMENT MAP

**Targeting success by benchmarking business PERFORMANCE and manufacturing CAPABILITY**

A half-day facility tour by Rockwell Automation consultants, including discussions with key plant continuous improvement champions, helps us target high-return operational improvements and the solution classes (OEE, track & trace, S88 Batch Control, etc) required to attain them. We assess the difficulty or ease of achieving identified improvements given current organizational structure, manufacturing processes, and legacy systems / technology and quickly provide your staff with a clear direction for improvement.

**Deliverable:** A listing of prioritized business issues, classes of manufacturing solutions categorized by high-level functional areas; such as WIP tracking, Asset Management, Process Improvement, etc. Typical solution price ranges and relevant business/financial benefits experienced by industry peers. Improvement recommendations are presented in person via powerpoint after a brief analysis period. Most importantly, the session ends with an implementation planning session to identify the needed steps to mitigate business and project risk.

The following table shows a high level description of activities for each of the three MAP offerings from Rockwell Automation, and what's included in each.

OFFERING OVERVIEW			
Activity/Deliverable	Assessment	Value	Strategy
Engagement Duration	1 Day	2 - 5 weeks	4 - 6 weeks
Operational and Business Issues	✓	✓	
Class of Solution Recommendations	✓	✓	
Plant Tour	✓	✓	✓
Detailed Interviews		✓	✓
Industry Benchmark and Best Practices Statements	✓	✓	
Estimated Business Value		✓	
ROI Estimate and Prioritization		✓	Optional
Customized Report and Presentation		✓	✓
High - level User Requirements			✓
Data and Process Flow (As - Is)			✓
Future State Process Flow			✓
Implementation Roadmap			✓
System Architecture			✓
Budgetary Project Cost Analysis			✓

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### VALUE MAP

**Price-to-Win: determining the right combination of business RETURN and operational VALUE**

Rockwell Automation consultants operate onsite 2-3 days at the target facility to quickly develop a clear and concise business case justification for targeted automation, controls, information and process-related improvements. Activities include a detailed facility tour, a financial performance and operational metrics review, and several 1-2 hour interviews with key production staff which may include: plant and operations management, scheduling, quality, materials management, controls engineering, maintenance, plant IT, corporate IT and controller. Tours, interviews and discussions focus on improvement areas (e.g. on-time delivery, production yield, OEE, production tracking, etc.)

**Deliverable:** Our consultants work with your production staff and financial team, to help produce a conservative, profitable manufacturing improvement plan. We compile on-site findings, perform off-site analysis, and generate estimated cost-benefit analysis for the targeted improvement areas. Estimated business value report and executive PowerPoint presentation defines a clear business case for targeted improvement areas in sufficient detail to initiate most capital appropriation requests.



### STRATEGY MAP

**Design to Cost: Managing business CONSTRAINTS while meeting USER REQUIREMENTS that deliver business and operational value**

Business consultants, subject matter experts and industry professionals develop a detailed implementation strategy, and expected solution cost, to achieve a "future state" vision for a plant or enterprise manufacturing process. We help you clearly articulate a manufacturing strategy, emphasizing optimization of critical legacy investments, and industry-supported standards in a success-oriented plan that achieves business return objectives. Working closely with manufacturing and related staff we:

- Develop implementation and design strategies along with associated process, material and information flows
- Tangibly illustrate the implemented future state vision, depicting system, solution and/or network architectures, identifying critical systems integration components and interfaces
- Recommend implementation expertise and timelines required for success
- Provide financial data that aligns with client's appropriation and planning requirements through budgetary estimates and an optional ROI calculation.
- Mitigate implementation risks by identifying activities that directly relate to operational functionality, implementation cost and delivery timelines

**Deliverable:** Produce current and future states for desired manufacturing improvements involving automation, controls, information and process-related solutions. Develop and document understandable operational/user requirements (technology-independent, operational terms), conceptual architecture drawings, future state process/material/information flows, system integration requirements, fixed-price budgetary costs, implementation timelines, and optional ROI calculations (if required) in standardized Rockwell Automation format. Provide development and support of executive presentations to obtain approval of developed strategies. Customized, company-specific, document formats for system implementation plans or manufacturing strategies available upon request at an additional fee.

[www.rockwellautomation.com](http://www.rockwellautomation.com)

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