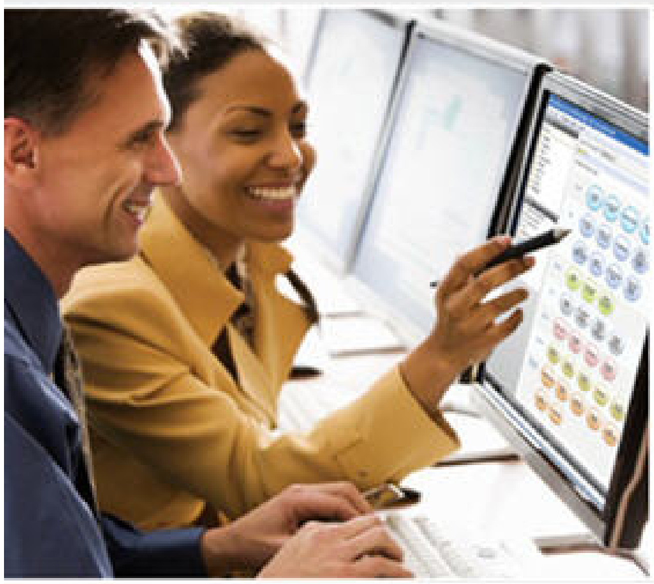
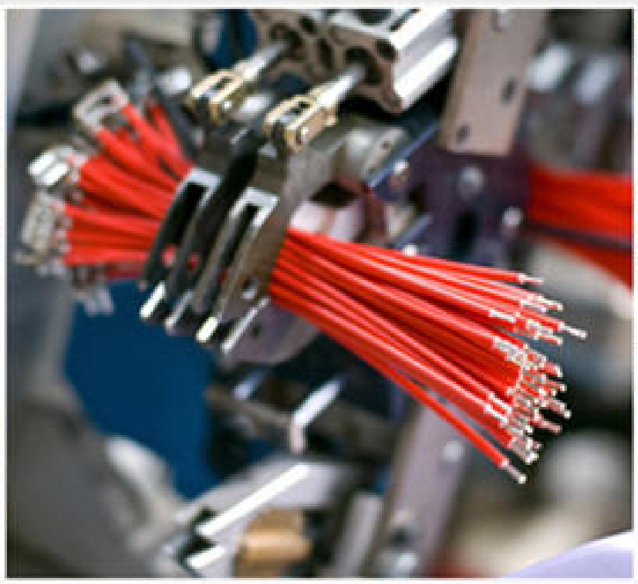
MMOG/LE 培训

成海燕
QAD 中国项目经理

QAD
卓 越 制 造
大中华区用户大会


QAD Our Passion. Your Advantage.

Materials Management Operations Guideline/ Logistics Evaluation (MMOG/LE)

物料管理运作指南/物流评估(MMOG/LE)

What is the MMOG/LE?
什么是MMOG/LE？

The recommended industry standard for materials processes (industry accepted benchmark).
对物料流程推荐的行业标准

Self-assessment (six chapters and 206 criteria) to identify gaps between internal processes and industry benchmarks.
自评估（**6**章，**206**个标准）来标识企业内部流程与行业基准间的差异

Weighted score sheet helps to prioritize improvement efforts
积分卡用于帮助权衡改善操作

谁要求MMOG/LE？

- 已经采用的OEMs
  - Ford
  - Chrysler
  - GM
  - Iveco
  - PSA
  - Renault
  - Volvo Car
  - Volvo Truck
- 正在评估
  - Fiat
  - BMW
  - VW
  - Daimler
  - Honda North America

MMOG/LE Background and History
背景和历史

National logo

AIAG 美国汽车工业行动组织

- The Automotive Industry Action Group (AIAG) provides a unique forum for auto manufacturers, suppliers, and vendors to interface and develop solutions that reduce the cost and complexity of doing business with multiple trading partners.

AIAG
Automotive Industry Action Group

Odette

- Odette International is an organization, that sets standards for e-business communications, engineering data exchange, and logistics management. Odette links the 4000 plus businesses in the European motor industry and their global trading partners.

History of the Global MMOG/LE
全球MMOG/LE 历史

- MMOG/LE is a collaborative effort between AIAG and Odette to develop a single Materials Planning and Logistics (MP&L) evaluation that can be used globally.
- MMOG/LE was derived from the Odette Logistics Evaluation (OLE) and AIAG's Materials Management Operations Guideline (MMOG), which were both originally published in 1999.

Benefits 好处

- A global, standard supplier evaluation标准化的供应商评估规范
- Improve delivery performance提高客户交付绩效
- Reduce inventory, premium freight, rework, obsolesce, line stoppages, lead times 降低库存，紧急运费，返工，报废，生产停线，提前期
- Improve customer satisfaction改善客户满意度
- Reduce supply chain risk 降低供应链风险
- Drive continuous improvement 驱动持续改进
- Increase overall competitiveness 提高整体竞争力

A Tool for Continuous Improvement
持续改进的工具

- Compare internal processes against best practice将内部流程和行业最佳实践比较
- Identify areas for improvement 识别需要改进的方面
- Create and prioritize action plans 建立并按紧急程度的纠正计划

Global MMOG/LE

- Developed by members of the automotive community, but is used outside the automotive industry. 由汽车行业协会开发，但可以使用于其他行业
- Usage outside the automotive industry 其他行业包括
  - Hospitals 医院
  - Construction 建筑工程
  - Aerospace 航天
  - Chemical 化工
  - Electronics 电子
  - Industrial 工业
  - Retail 批发
  - Universities 大学

Understanding the Global MMOG/LE Document
理解 MMOG/LE 文档

MMOG/LE Self-Evaluation Sections
MMOG/LE自评估范围

1. Strategy and Improvement 策略与改进
2. Work Organization 工作组织
3. Production and Capacity Planning 生产和能力计划
4. Customer Interface 客户接口
5. Production and Product Control 生产和产品控制
6. Supplier Interface 供应商接口

Structure of the Document 文档结构

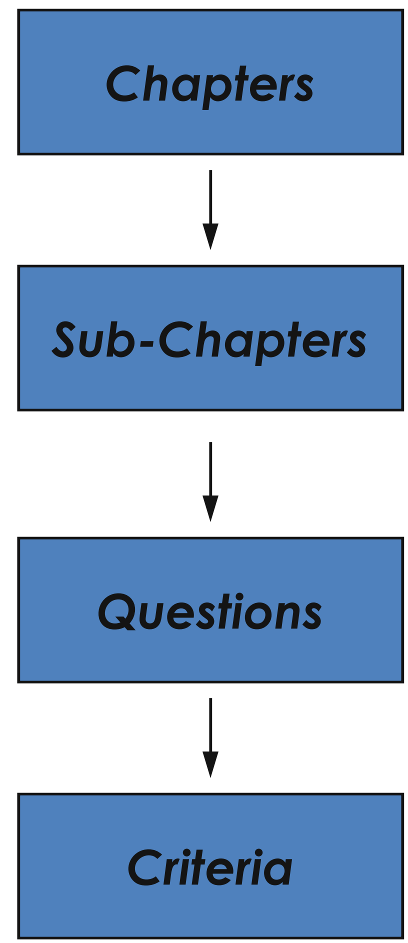
- The document is structured into 6 chapters that represent the areas of evaluation

  文档分为6个章节，即需要评估的范围
- Each chapter is divided into 4 to 7 sub-chapters

  每个章节分为4-7个子部分
- Each sub-chapter contains a number of questions

  每个子部分包含系列问题
- The questions contain the individual criteria

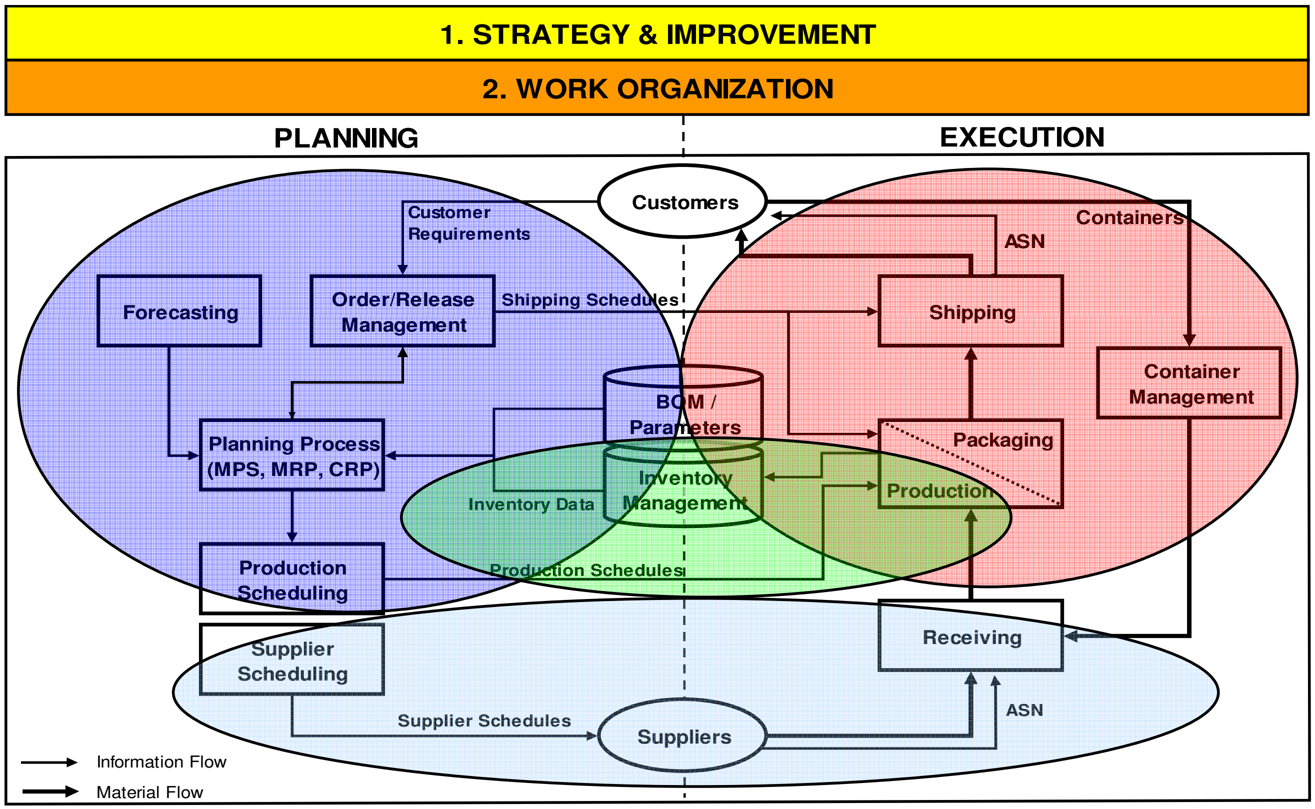
  每个问题包含若干个标准（要求）



Materials Planning and Logistics Model
物流计划和物流模型

LEGEND: The color coding relates to the following MMOG/LE chapters:

1. Strategy & Improvement
2. Work Organization
3. Capacity & Production Planning
4. Customer Interface
5. Production & Product Control
6. Supplier Interface



Download the Self Assessment
下载自我评估表

1.4.2		There shall be a process to identify and take corrective actions on deficiencies and/or unstable processes found during internal assessments.
Why?		For organizations to remain competitive and reduce cost, ... to be identified.
Criteria:		Minimum requirement (Additional areas to be cover... requirements).
F3		Bottle neck processes.

ENGLISH

1.4.2		Il doit exister un processus permettant de définir et de mettre en place des actions correctives pour les process défaillants identifiés lors d'audits internes.
Pourquoi ?		Afin que l'entreprise reste compétitive et réduise ses coûts ... process à améliorer.
Criteria:		LES CRITERES DECRITS CI-APRES REPRESENTENT L... Des process complémentaires peuvent être mis en place pour répondre à des besoins clients spécifiques.
F3		Goulots d'étranglement.

FRENCH

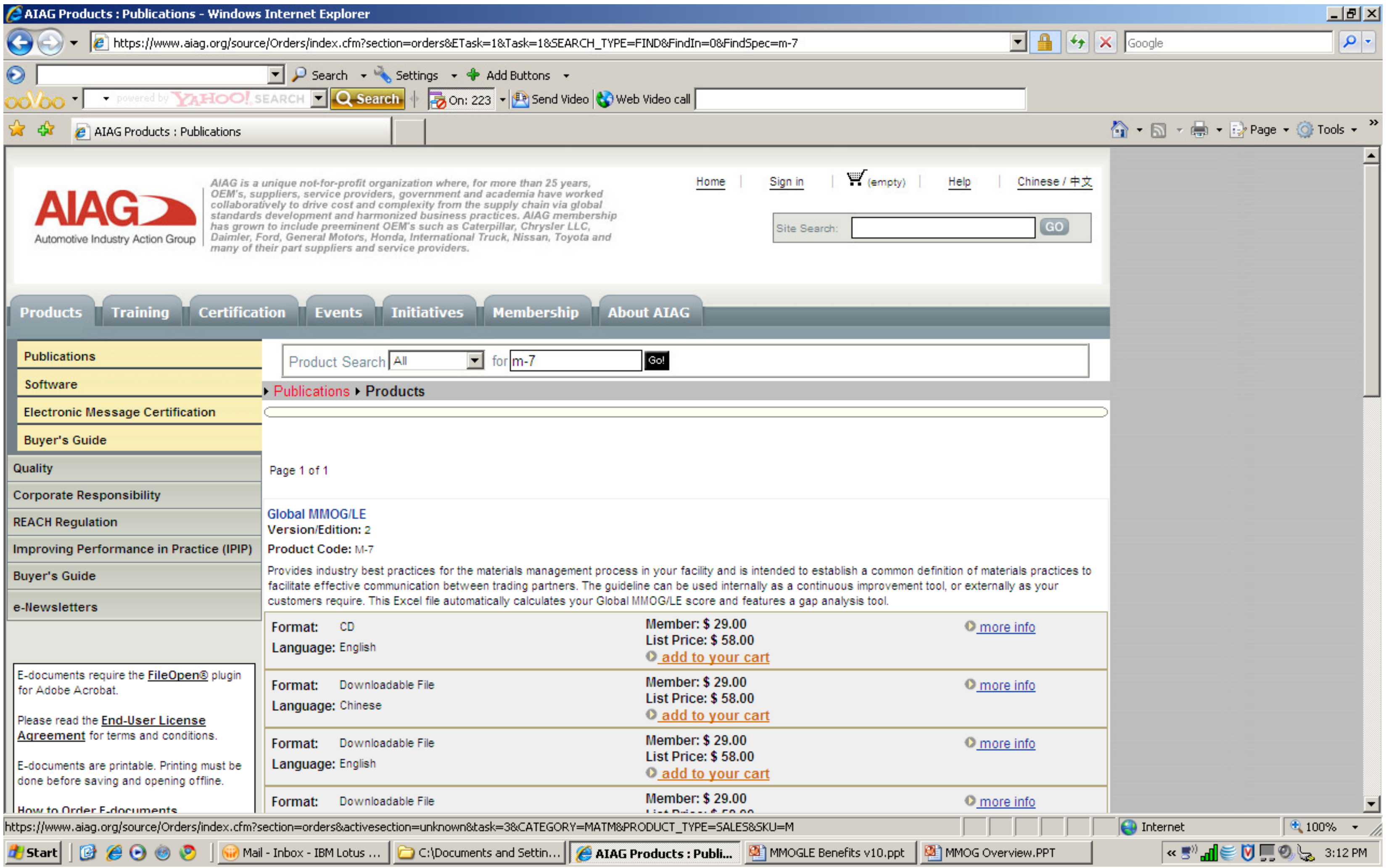
1.4.2		必须有一个过程以对那些在内部评审期间所发现的不足和/或不稳定过程，进行识别并采取纠正措施。
为什么?		为了使组织保持竞争性并降低成本，需要识别要改进的特定区
准则：		最低要求（要包含特定顾客所要求的其他领域）。
F3	X	瓶颈的过程。

CHINESE

1.4.2		内部評価の際に発覚した不備や未整備のプロセスに... ロセスがある。
理由		組織にとって競争力の... には、
基準：		最低限の要求事項（その他の領域は顧客個別の要求...
F3		ボトルネック・プロセス

JAPANESE

www.aiag.org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AIAG
Automotive Industry Action Group
AIAG is a unique not-for-profit organization where, for more than 25 years, OEM's, suppliers, service providers, government and academia have worked collaboratively to drive cost and complexity from the supply chain via global standards development and harmonized business practices. AIAG membership has grown to include preeminent OEM's such as Caterpillar, Chrysler LLC, Daimler, Ford, General Motors, Honda, International Truck, Nissan, Toyota and many of their part suppliers and service providers.
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Page 1 of 1
Global MMOG/LE
Version/Edition: 2
Product Code: M-7
Provides industry best practices for the materials management process in your facility and is intended to establish a common definition of materials practices to facilitate effective communication between trading partners. The guideline can be used internally as a continuous improvement tool, or externally as your customers require. This Excel file automatically calculates your Global MMOG/LE score and features a gap analysis tool.
Format: CD
Language: English
Member: $ 29.00
List Price: $ 58.00
add to your cart
more info
Format: Downloadable File
Language: Chinese
Member: $ 29.00
List Price: $ 58.00
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Please read the End-User License Agreement for terms and conditions.
E-documents are printable. Printing must be done before saving and opening offline.
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AIAG Products : Publi...
MMOGLE Benefits v10.ppt
MMOG Overview.PPT
3:12 PM

MMOG/LE Translations 已翻译语言

- Available in 10 languages including:

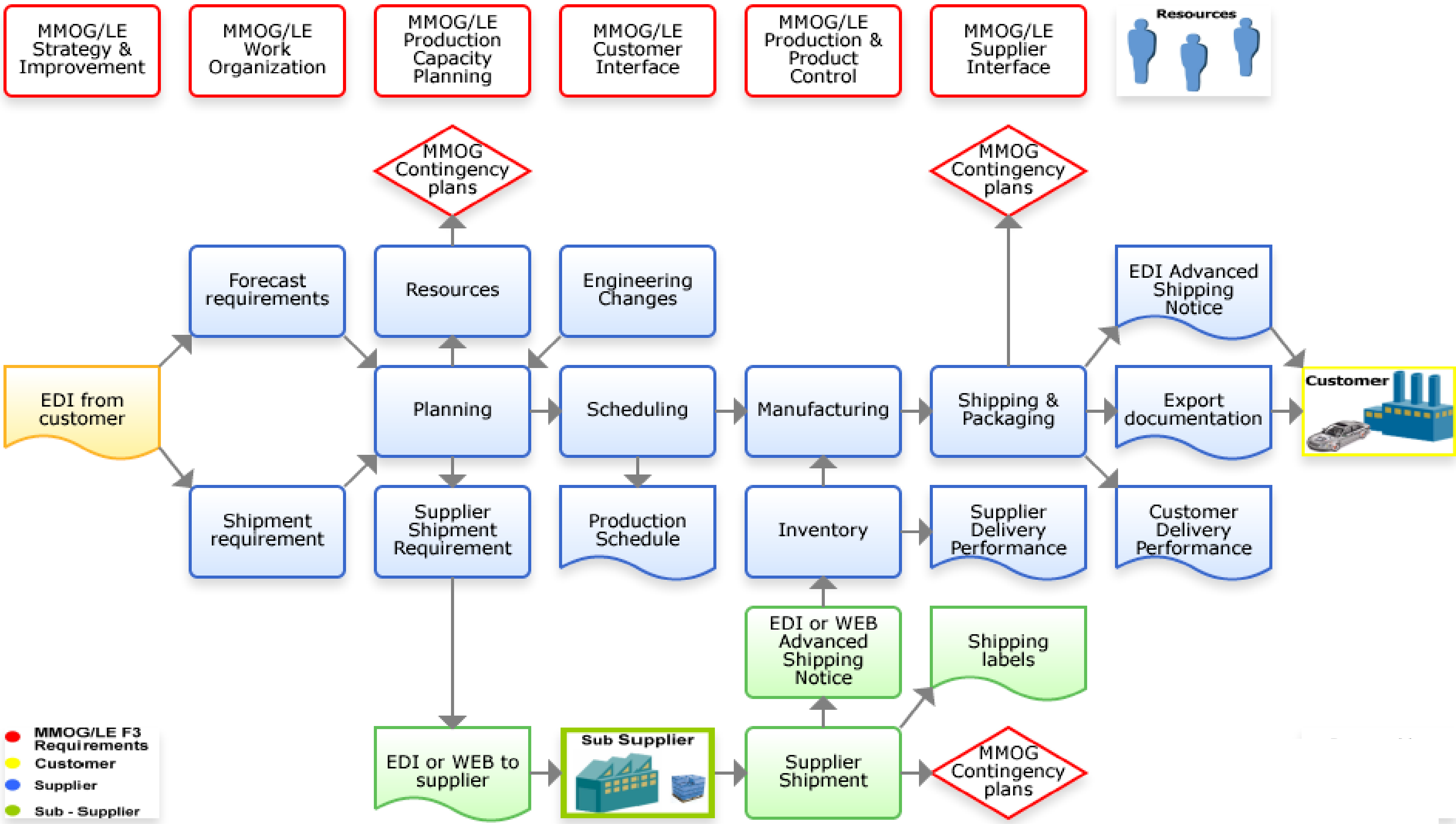
  English French German

  Spanish Portuguese Chinese

  Romanian Czech Turkish

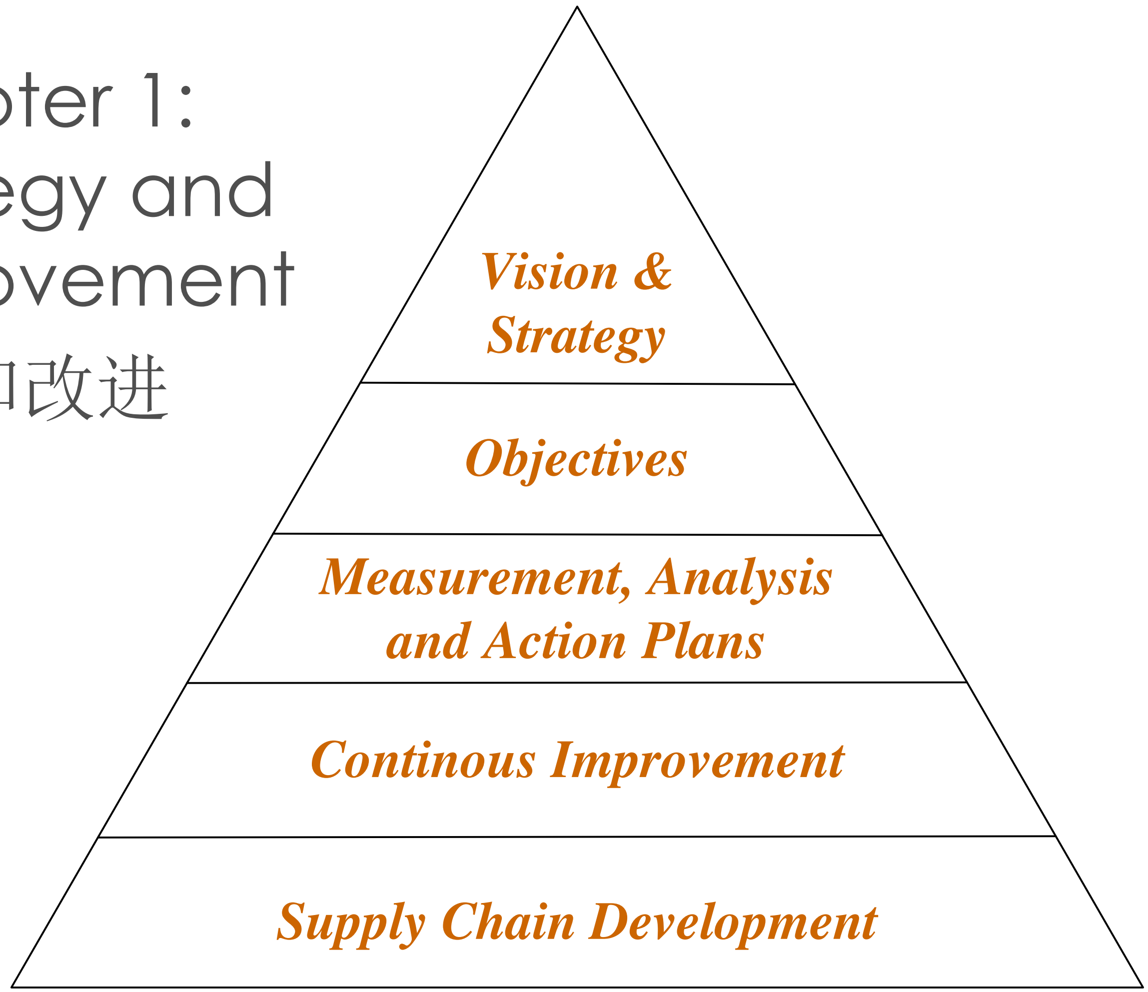
  Slovene

MMOG/LE Processes 流程



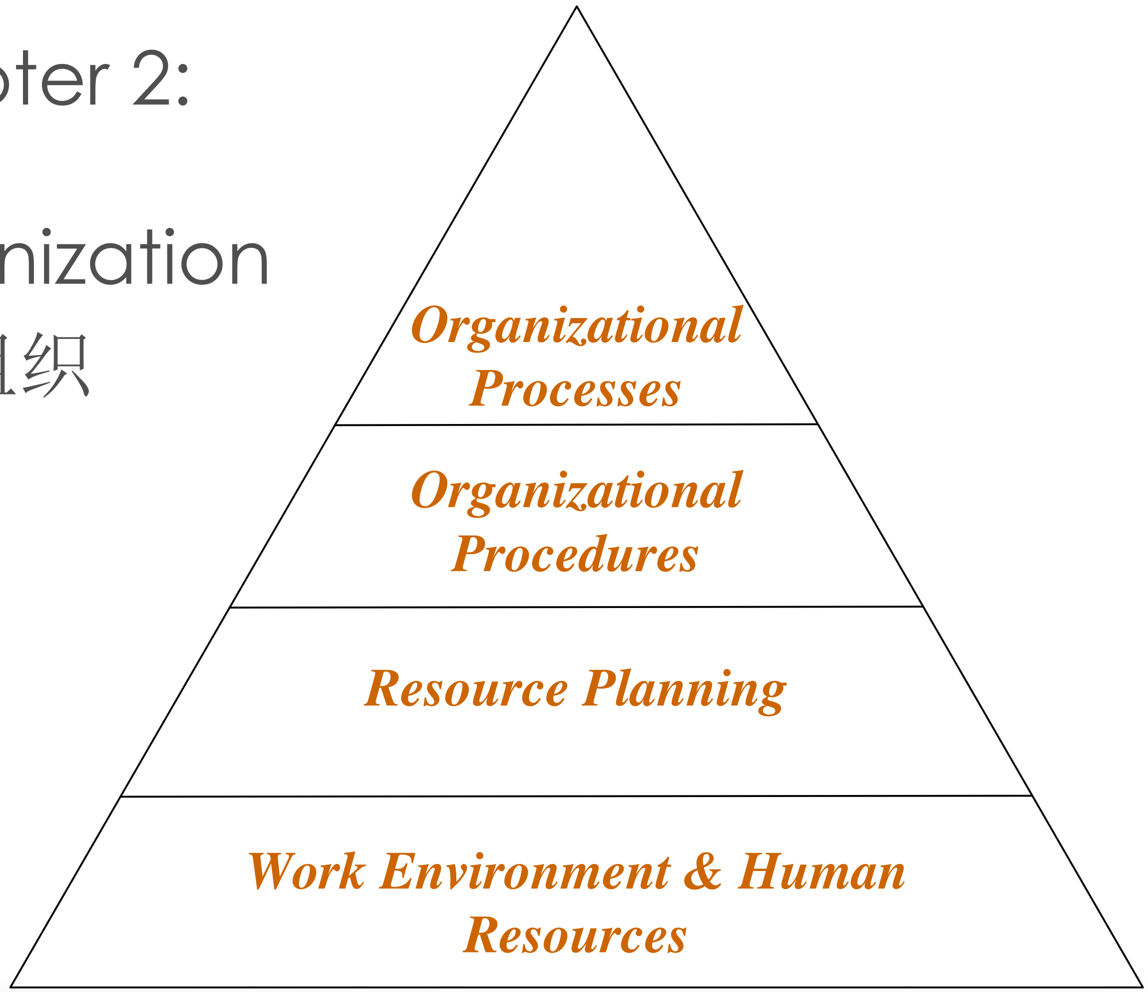
Areas of Evaluation 评估方面

- Chapter 1: Strategy and Improvement
  战略和改进



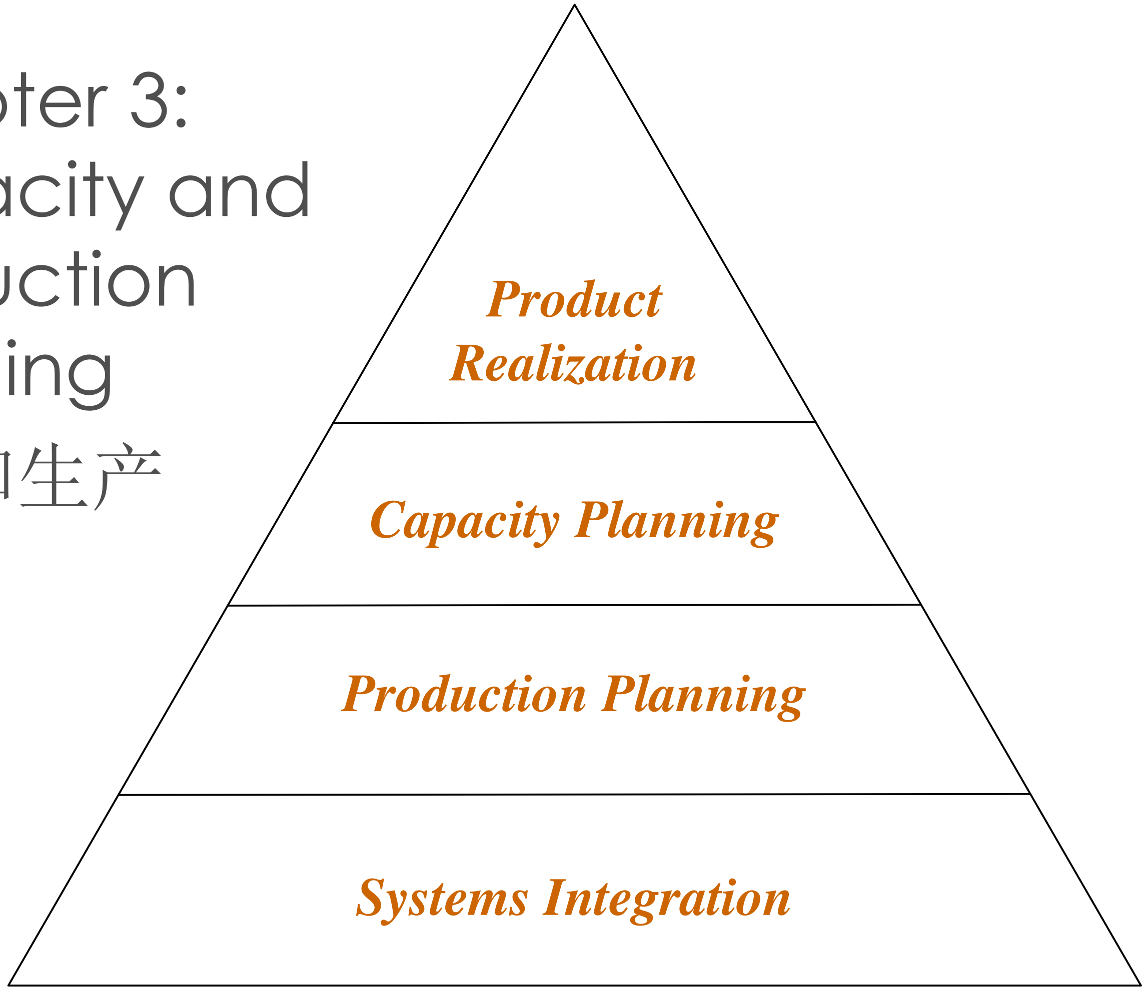
Areas of Evaluation评估方面

- Chapter 2: Work Organization
  工作组织



Areas of Evaluation评估方面

- Chapter 3: Capacity and Production Planning
  能力和生产计划



Areas of Evaluation评估方面

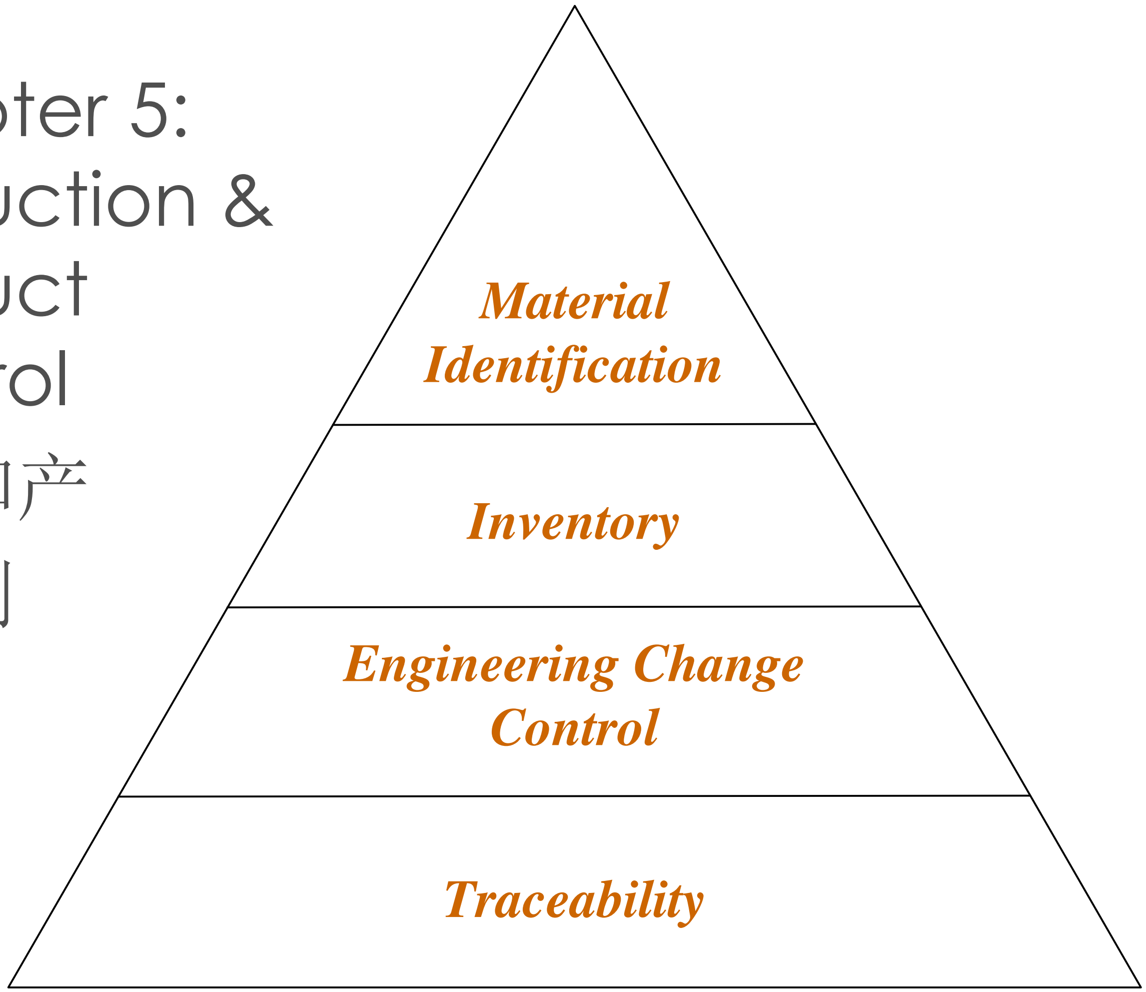
- Chapter 4: Customer Interface

  客户接口

Areas of Evaluation评估方面

- Chapter 5: Production & Product Control

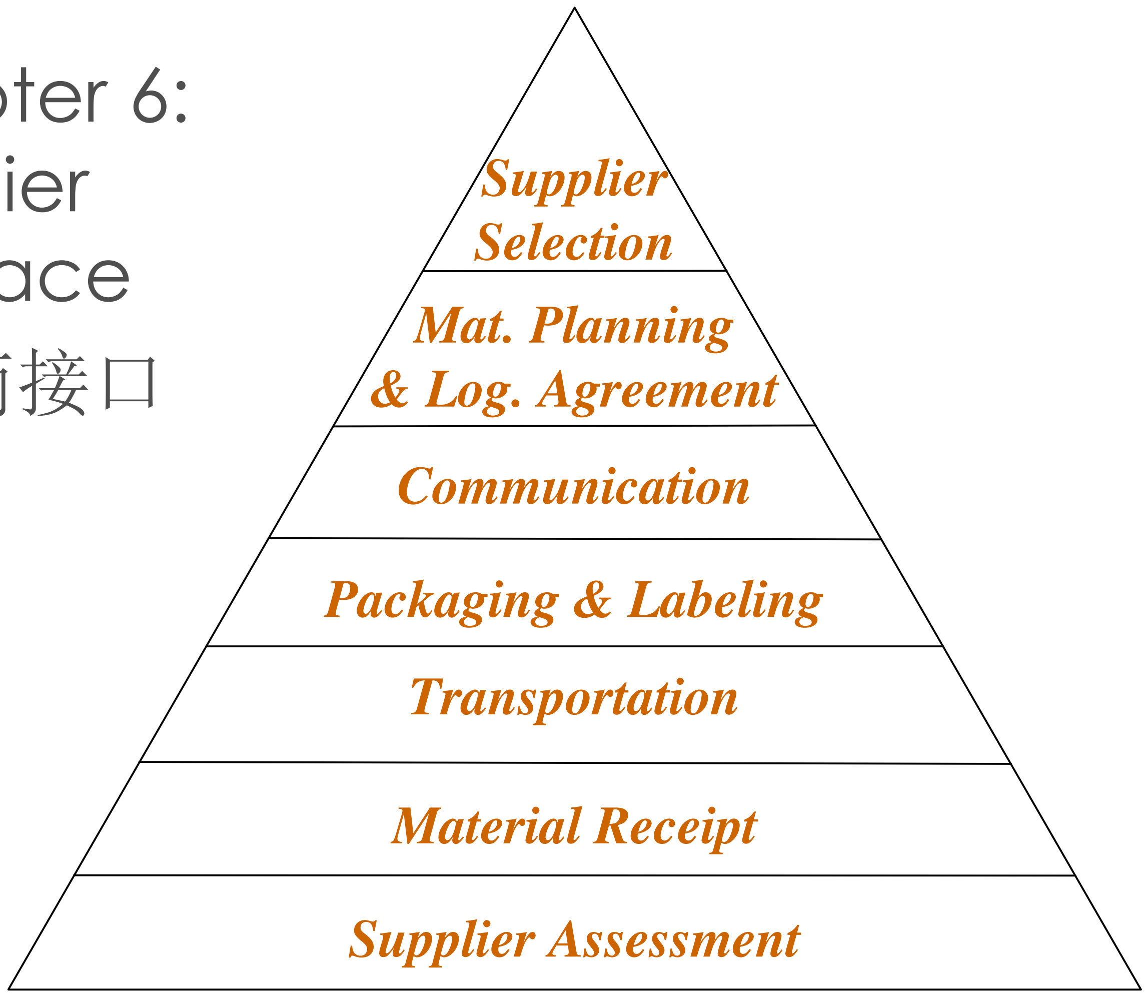
生产和产品控制



Areas of Evaluation评估方面

- Chapter 6: Supplier Interface

  供应商接口



How is the MMOG/LE Structured?
MMOG/LE架构如何？

全球MMOG/LE的架构

Question 问题

Why-Statement

原因陈述

Criteria to be evaluated with specific weighting

对规则设定权重

4.1 COMMUNICATION

4.1.1 The organization maintains a process to ensure a co-operative communication based on actual and adequate information for both parties.

Why To maintain customer relations, prevent misunderstandings and ensure continued business based on co-operative communication.

Criteria

(F2) There are agreed contingency plans established between both parties to maintain permanent communication during bottleneck situation(s). (1.4.2)

(F2) The customers' goals regarding Material Planning and Logistics performance are clearly defined (e.g. Customer delivery instructions/schedules), visualised and followed-up by the organization (3.1.4)

(F1) A contact list exists conta ining name, function, method of communication (e.g. phone number, fax number, e-mail address, language spoken, etc.), hours of availability and deputies/back-ups for each Material Planning and Logistics function from its customers (1.4.2/16)

(F1) The contact listing must support the entire scheduled operating hours of all customers (18)

(F1) There is a documented process (incl. process owner) for maintaining contact information internally and updating the contact information on the customer's system (17)

MMOG/LE Self-Assessment Document
MMOG/LE自评估文档

			Each question is multiplied by a weight factor:
			F1 = Low (1 point each)
			F2 = Medium (2 points each)
			F3 = High (3 points each; any non-compliance will result in overall evaluation to be Level C due to critical competency factor.
			Enter "X" in each check box if process is effectively implemented at your organization
			1.1 Vision and Strategy
	1.1.1		**The organization has a strategy that ensures the Materials Planning and Logistics vision is achieved.**
	Why?		For the Materials Planning and Logistics process to be efficient and effective, it needs to be acknowledged as an important part of the operation and receive adequate resources.
			Good knowledge of long-term strategy is a condition for employees to work consistently and be pro-active.
	Criteria:		
1)	F2		A documented vision exists for the Materials Planning and Logistics function.
2)	F2		A documented strategy exists with activities for implementing the Materials Planning and Logistics vision.
3)	F2		The Materials Planning and Logistics vision and strategy is linked to the organization's overall objectives, including customer requirements and continuous improvement.
4)	F2		The Materials Planning and Logistics vision and strategy is communicated and understood within the organization.

Example Criteria 样例

1.2.2			**The organization shall have Key Performance Indicators (KPIs) defined and in place for key areas of the MP&L process that support meeting both the organization's business objectives and customer requirements.**
Why?			Defining, collecting, and analyzing KPI data assists the organization to determine the effectiveness of the MP&L process. In addition, the process helps identify areas where continual improvement can be made to achieve the organization's business objectives and/or to satisfy customer requirements.
Criteria:			
			Delivery
1)	F3		Delivery performance to customer (e.g. customer performance rating, ship-to-schedule, shipping discrepancies) shall be defined and measured.
2)	F3		Supplier delivery performance metrics (e.g. on-time delivery, receipt discrepancies, ASN accuracy) shall be defined and measured.
3)	F3		Internal performance metrics (e.g. build to schedule, labor performance, labor effectiveness) shall be defined and measured.
4)	F2		Lead times for all supply chain processes within the organization's responsibility (e.g. procurement, manufacturing, transport, schedule preparation) are defined and measured.
			Quality
5)	F2		Metrics are defined to measure the quality of work within MP&L processes (e.g. incorrect/missing documentation, EDI system downtime, EDI error messages, packaging and labeling errors).
			Cost
6)	F2		Standard costs related to MP&L processes (e.g. freight, labor, packaging) and extraordinary costs associated with inefficiencies (e.g. premium freight, overtime, damaged containers) are identified and measured.
7)	F1		Inventory levels and/or turns are measured separately for raw material, work-in-process (WIP), finished goods.

Scoring Summary Needed for Submission
需要提交的积分汇总

Global Materials Management Operations Guide / Logistics Evaluation results sheet

Chapter	Question number	Result (Criteria score x Weighting of criteria)														Act. Score	Max. Score	S=self assessed	V=verified assessed
		1	Weight.	2	Weight.	3	Weight.	4	Weight.	5	Weight.	6	Weight.	7	Weight.				
1	1.1.1	x	F2	x	F2	x	F2	x	F2							8	8		
	1.2.1		F2		F2		F2									0	6		
	1.2.2		F3		F3		F3		F2		F2		F2		F1	0	16		
	1.3.1		F2		F2		F2		F1							0	7		
	1.3.2		F2		F2											0	4		
	1.4.1		F1		F1		F1									0	3		
	1.4.2		F3		F2		F2		F2		F1					0	10		
	1.5.1		F1		F1		F1									0	3		
	1.5.2		F2		F2		F2									0	6		

Chapter summary	F3	F2	F1		
Fulfilled	0	4	0	MAX Score	63
Not fulfilled	4	1[illegible]	9	%	13%
				Total Chapter 1	8

Score automatically calculated for each section
每部分积分自动计算

Automated Scoring System自动评分系统

- The purpose of the scoring system
  评分系统目的
  - Identify areas, which should be given a high priority指出必须优先考虑的方面
  - Focus on urgent issues to avoid the risk of not meeting the customer's requirements针对紧急问题，避免不满足合作伙伴需求的风险
  - Determine classification/level 决定评估等级
- The weighting system aids in prioritizing continuous improvement activities分数意味：有助列出持续改进活动的次序

Automated Scoring System自动评分系统

There are three focus levels 三种针对性标准

- F1 requirements: If not met, the organization's competitiveness will be adversely affected.
  如果不满足，企业竞争力将有不利影响
- F2 requirements: If not met, customer satisfaction and the organization's performance will be seriously affected.
  如果不满足，客户满意度和企业绩效将有严重影响
- F3 requirements: If not met, there is a high risk of interruption to customer operations with additional costs to be incurred in the short term.
  如果不满足，有可能短期内造成客户运作中断招致额外成本出现的严重风险

Scoring of Evaluation Areas各评估面的自动评分

Scoring Summary Results

Chapter	Criteria	Result (Criteria scored x Weight of criteria)														Act. Score	Max Score	% Comp	Assessor's Name	Verifier's Name
		1	Weight	2	Weight	3	Weight	4	Weight	5	Weight	6	Weight	7	Weight					
1	1.1.1	✓	F2	✓	F2	✓	F2	✓	F2							8	8	100%		
	1.2.1	✓	F2		F2	✓	F2									4	6	67%		
	1.2.2	✓	F3	✓	F3		F3	✓	F2		F2	✓	F2	✓	F1	11	16	69%		
	1.3.1	✓	F2	✓	F2	✓	F2		F1							6	7	86%		
	1.3.2	✓	F2	✓	F2											4	4	100%		
	1.4.1	✓	F1	✓	F1		F1									2	3	67%		
	1.4.2	✓	F3	✓	F2	✓	F2	✓	F2	✓	F1					10	10	100%		
	1.5.1	✓	F1	N/A	F1	✓	F1									2	3	67%		
	1.5.2	✓	F2	✓	F2	✓	F2									6	6	100%		

Chapter summary

	F3	F2	F1
Compliant	3	19	6
Non Compliant	1	2	2
Non Applicable	0	0	1

Total Chapter 1	53
MAX Score	63
% Compliant	84%

Overall Score and Classification
整体分数和等级

TOTAL score	193
Maximum Score	351
%	54%

	F3	F2	F1	Σ
Compliant	21	42	46	109
Non Compliant	13	33	49	95
Non Applicable	1	0	1	2
Σ	35	75	96	206

Classification
C

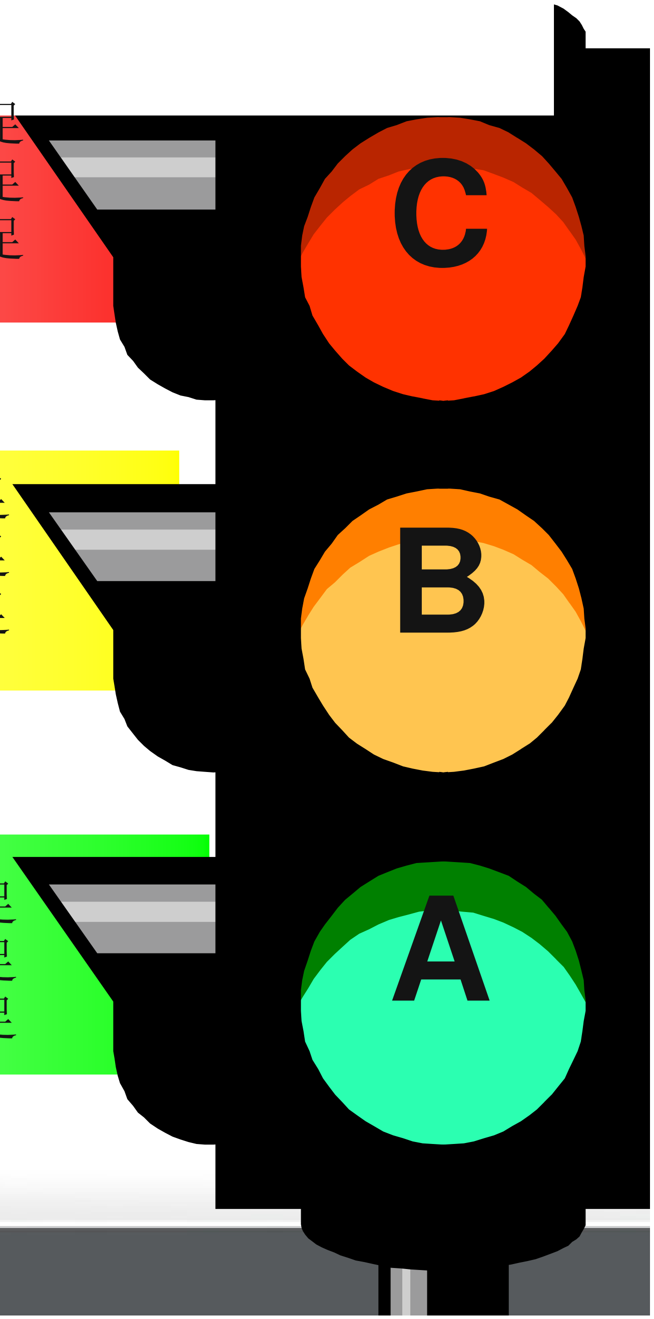
- Based on the evaluation results, the supplier is classified
- There are three levels: A, B, C

Classification of Results
等级评价

总体少于75%满足
OR 12个或大于12个F2不满足
OR 1个或多个F3不满足

总体多于75%满足
AND 少于 12个 F2不满足
AND F3全部满足

90% 以上满足
AND 少于 6个 F2不满足
AND F3全部满足



Scoring Summary (ABC Classification)
积分汇总（ABC分类）

A Level **A级**	Supplier is considered to be at or near "**world class**" standards (90% or higher). 供应商达到或接近"全球"标准的90％或更高
B Level **B级**	Supplier is deficient in two or more aspects of a given category or multiple categories (75% < 90%). An **action plan** should be **put in place** and the corrective action should not require a significant amount of time to implement. 供应商在某确定范围或多个范围内无法达标，满足标准的75－95％。应制定行动计划，并且相应的行动不会需要很多时间来实施。
C Level **C级**	Supplier is deficient in **one** or more **critical or high impact** aspects (75% or less). Action plans required to ensure deficiencies do not result in **serious** or **prolonged issues** to the customer. 供应商在一个或多个重要或有重要影响区域无法达标，少于75％。需要制定行动计划，确保对客户不会产生严重的，或其它延期影响

Answer Options for Assessment
评估问题回答

✓	N/A	
满足	不适用	不满足

Why Take the Self-Assessment?
为什么执行自评估？

- Benchmark your materials management practices in any industry
  适用于任何行业的物料管理标准
- Meet customer requirements for an approved supplier
  满足客户需求的合格供应商
- Target list for improvements (Gap/Gains)
  （差异/收益）改善的目标列表
- Use it as a guide to standardize plant logistics globally
  作为工厂实现全球物流标准化的指南
- Enable world-class lean practices 支持世界级精益企业
- Reduce manufacturing costs 减少制造成本

Classification of Results 等级结果

- A-level
  - The supplier far surpasses minimum standards in every aspects 供应商在各方面较大的超越了最低标准
  - The supplier can be considered at or near “world class” standard供应商接近世界级标准

Classification of Results等级结果

- B-level
  - The supplier is deficient in two or more aspects of a given category or multiple categories 供应商存在两个方面以上不完善
  - An action plan should be in place, and the corrective action should **not** require more than 3 months to implement

  必须有行动计划，纠正行动必须在3个月内实施

Classification of Results等级结果

- C-level
  - The supplier is deficient in one or more critical aspects or high-impact aspects of a given category

    供应商有一个或多个危急或较高影响的方面存在不足
  - Action plans are required to ensure deficiencies do not result in a serious or prolonged issues to the customer

    必须有行动计划，以保证这些不足不会造成严重后果或拖延问题影响客户

Action Plan as a Major Result
纠正计划作为主要结果

- Scoring leads to actions 分数产生纠正行动
  - Scoring results must be directly linked with an action plan in the gap analysis which includes: 分数结果必须直接连接一个差异分析及行动计划
    - Current State 当前状态
    - Desired State 理想状态
    - Gap 差异
    - Action Required 需要的行动
    - Target Dates 完成日期
    - Responsibility 责任人
    - Costs 成本

差距分析工具

Global MMOG/LE

Question #	Criteria Weight	Element	Desired State	Current State
1)	F2	1.3 Measurement, Analysis and Action Plans	The management prioritizes documented action plan items. The action plan should include the action, responsibility, timing and allocated resource.	
2)	F2	1.3 Measurement, Analysis and Action Plans	Evaluations of corrective/preventive actions are performed at the conclusion of each action plan. The review shall be used to determine the effectiveness, the application to similar processes and the need for any further action.	
1)	F1	1.4 Continuous Improvement	A defined process supported by management for continuous improvement is used within the entire organization and with all supply chain partners.	

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Question #	Criteria Weight	Element	Desired State	Current State	Gap	Action Required	Time to Complete	Responsibility	Cost
1)	F2	1.1 Vision and Strategy	A documented vision exists for the Materials Planning and Logistics function.						
2)	F2	1.1 Vision and Strategy	A documented strategy exists with activities for implementing the Materials Planning and Logistics vision.						
3)	F2	1.1 Vision and Strategy	The Materials Planning and Logistics vision and strategy is linked to the organization's overall objectives, including customer requirements and continuous improvement.						
4)	F2	1.1 Vision and Strategy	The Materials Planning and Logistics vision and strategy is communicated and understood within the organization.						
1)	F2	1.2 Objectives	All objectives are measurable and consistent with the organization's Materials Planning and Logistics strategy.						
2)	F2	1.2 Objectives	Objectives are accepted by all relevant functions and are clearly cascaded throughout the organization.						

Identify Gaps—Example 差异分析-样例

Question #	Element	Desired State	Current State	Gap
97)	4.1 Communication	Electronically communicated delivery forecasts (e.g., 830/DELFOR/planning releases) shall be received and processed.	Customer EDI not implemented. Releases are being received via the Internet and inputted manually into the system.	Need to obtain customer, EDI guidelines, map EDI transaction, obtain VAN connection, test internally and test with customer.
98)	4.1 Communication	Electronically communicated call off's (e.g., 862/DELJIT, shipping schedules, sequenced shipping schedules) shall be received and processed.	Customer EDI not implemented. Schedules are being received via the Internet and inputted manually into the system.	Need to obtain customer, EDI guidelines, map EDI transaction, obtain VAN connection, test internally and test with customer.
99)	4.1 Communication	Receipt and understanding of electronic communication should be in accordance with international automotive standards (e.g., AIAG/Odette.)	We do not have the customer's EDI guidelines, We need to obtain customer EDI guidelines from their web site.	Provide EDI guidelines to our software provider create maps to load the EDI data into our system.

Action Plan Example纠正计划样例

Action Required	Time to Complete	Responsibility	Cost *
Obtain guidelines 830 - DELFOR; 862 -DELJIT; review guidelines; Contact customer with any questions; store guidelines on intranet with other customer EDI guidelines	Download from customer web site at www.oem.com	EDI analyst IT Department	No charge
			We need to download Specifications to provide to our software provider.

- Include potential revenue or savings if available.
  如果可能包括潜在收益

Gap Analysis and Action Plan

差异分析和纠正计划

File Edit View Insert Format Tools Data Window Help — Type a question for help

A6

Select Filter Option: All Criteria | Go to Worksheet: Gap Analysis | Toggle | Current Score | Create Progression Chart

MMOG/LE

Total Compliant Criteria 196
Total Non Compliant Criteria 4
Non Applicable Criteria 6

Click the 'Create Progession Chart' button to create a Progression Chart that shows the organization's Scoring and Classification progress according to the Target Dates in the Gap Analysis.

Click here for additional instructions on how to use the Gap Analysis and create a Progression Chart

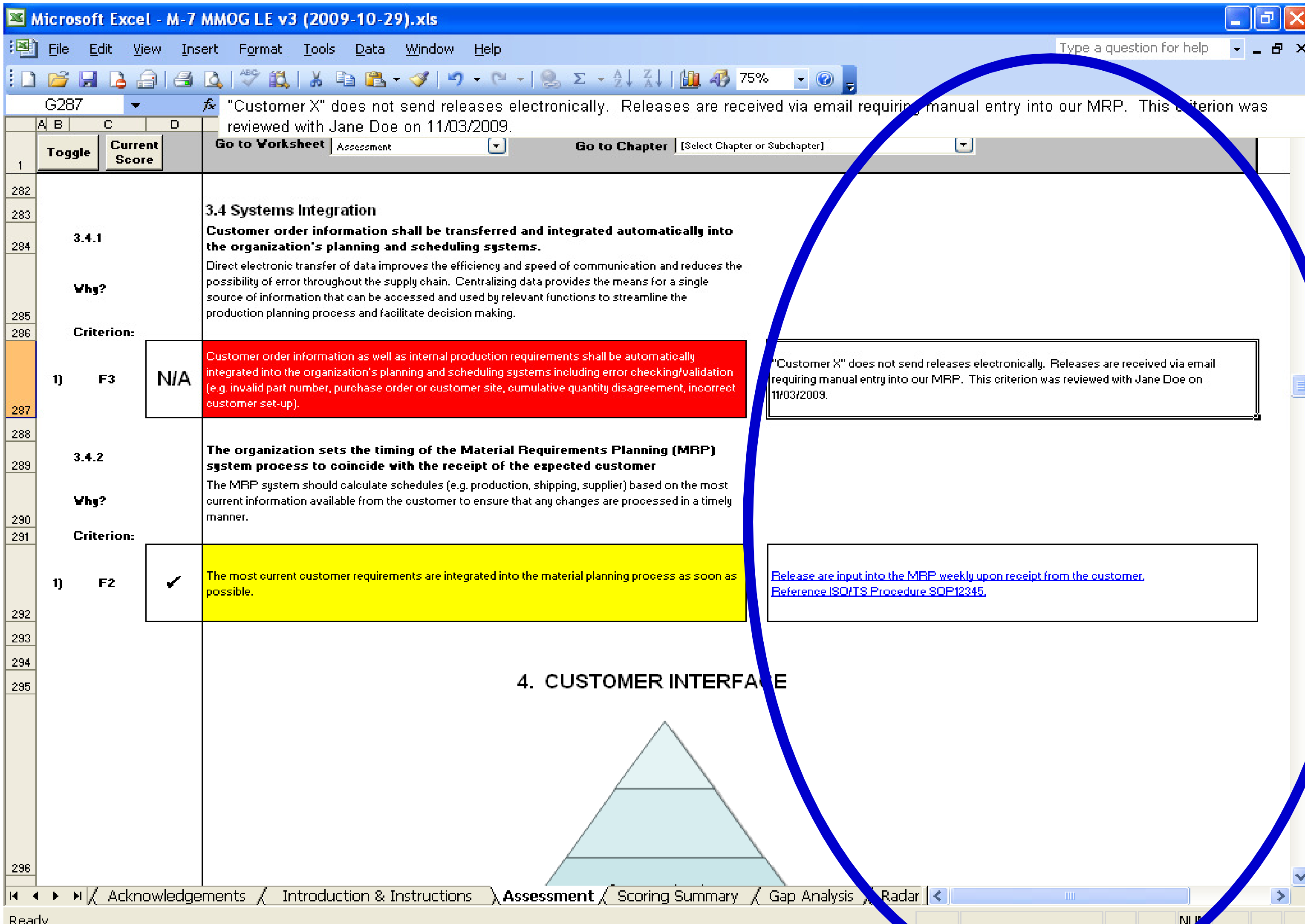
ODETT

Complia	Element	Criter	Question #	Criteria Weigh	Desired State	Assessment Commen	Current State	Gap	Action Plan	Target Date	Completion Date	Responsibility
✓	3.3 Production Planning	3.3.2	2)	F1	A process exists that uses forecast demand in the design of the pull system (e.g. kanban loop and lot sizes) and the parameters are reviewed at appropriate intervals.	Reference ISO/TS Procedure SOP01234.						
✓	3.3 Production Planning	3.3.2	3)	F1	The pull planning process extends to suppliers.	Reference ISO/TS Procedure SOP54321.						
N/A	3.4 Systems Integration	3.4.1	1)	F3	Customer order information as well as internal production requirements shall be automatically integrated into the organization's planning and scheduling systems including error checking/validation (e.g. invalid part number, purchase order or customer site, cumulative quantity disagreement, incorrect customer set-up).	"Customer X" does not send releases electronically. Releases are received via email requiring manual entry into our MRP. This criterion was reviewed with Jane Doe on 11/03/2009.						
✓	3.4 Systems Integration	3.4.2	1)	F2	The most current customer requirements are integrated into the material planning process as soon as possible.	Release are input into the MRP weekly upon receipt from the customer. Reference ISO/TS Procedure SOP12345.						
N/A	4.1 Communication	4.1.1	1)	F2	There is a documented process that defines the level, frequency, and content of communication with the customer.	Criterion 4.1.1 Q1 is non applicable because of XYZ. was reviewed and approved by Jane Doe on 11/3/2009.						
N/A	4.1 Communication	4.1.1	2)	F2	The customer's expectations and requirements regarding MP&L are understood (e.g. schedule adherence, routing instructions, ASN performance), reviewed regularly, and communicated to the appropriate personnel.	Criterion 4.1.1 Q1 is non applicable because of XYZ. was reviewed and approved by Jane Doe on 11/3/2009.						
					The organization provides its							

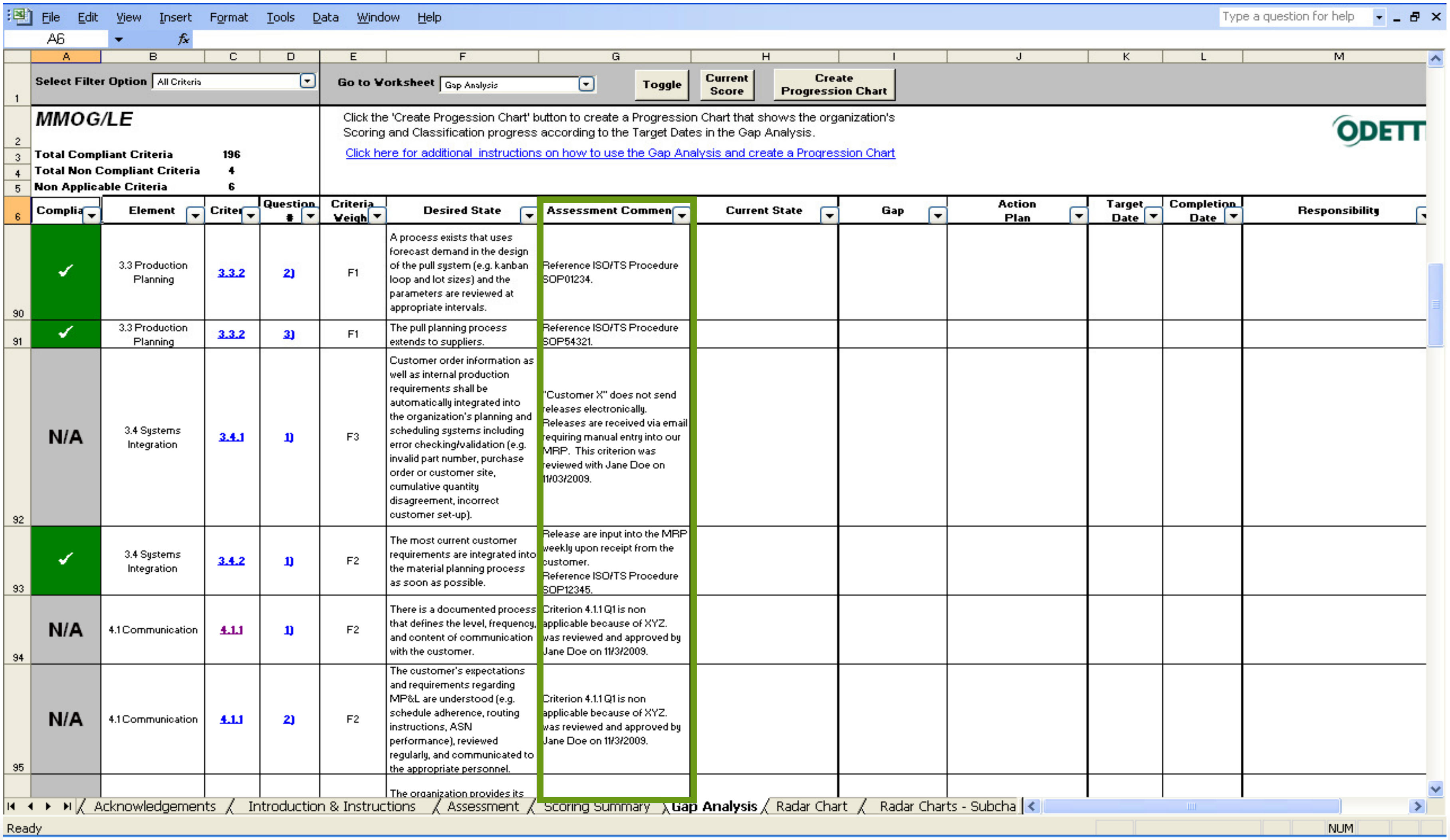
Acknowledgements / Introduction & Instructions / Assessment / Scoring Summary / **Gap Analysis** / Radar Chart / Radar Charts - Subcha

Ready NUM

Comments for all Criteria 所有规范要注解



Gap Analysis Includes Comments
差异分析包括注解



Radar Chart Views雷达图

Toggle | Go to Worksheet: Radar Charts | Go to Chapter: [Select Chapter or Subchapter]

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ODETTE AIAG

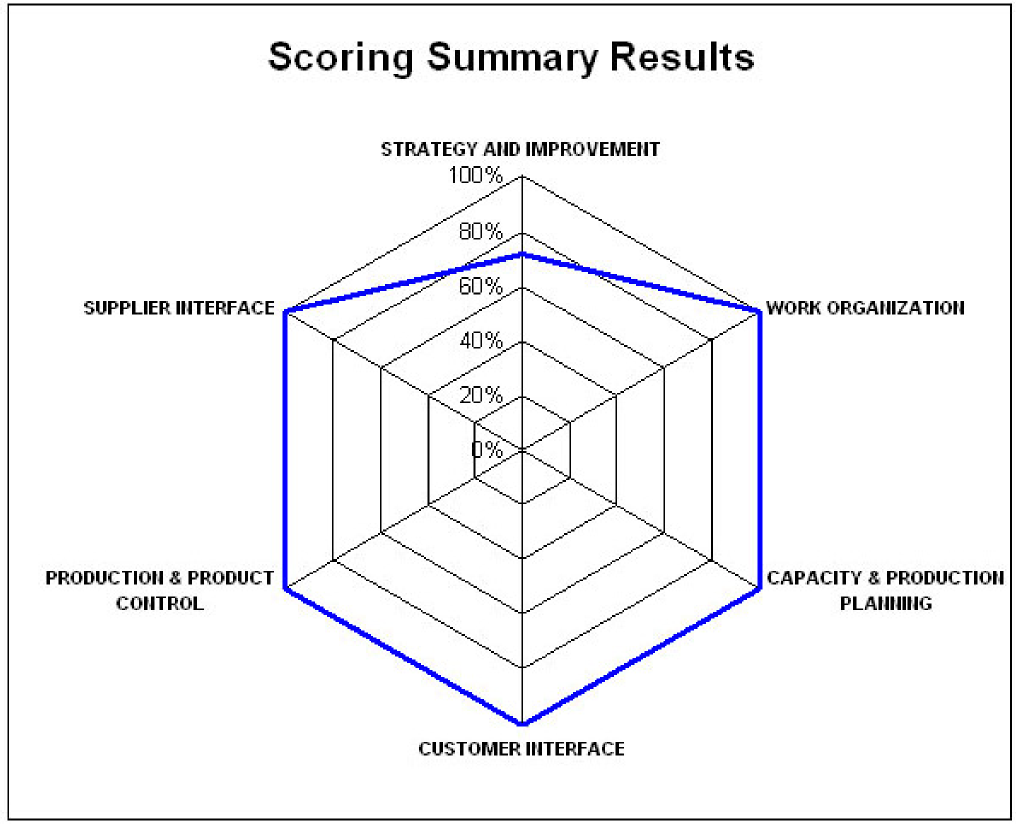
CHAPTER ONE	STRATEGY AND IMPROVEMENT	71%
CHAPTER TWO	WORK ORGANIZATION	100%
CHAPTER THREE	CAPACITY & PRODUCTION PLANNING	100%
CHAPTER FOUR	CUSTOMER INTERFACE	100%
CHAPTER FIVE	PRODUCTION & PRODUCT CONTROL	100%
CHAPTER SIX	SUPPLIER INTERFACE	100%

SCORE %

94%

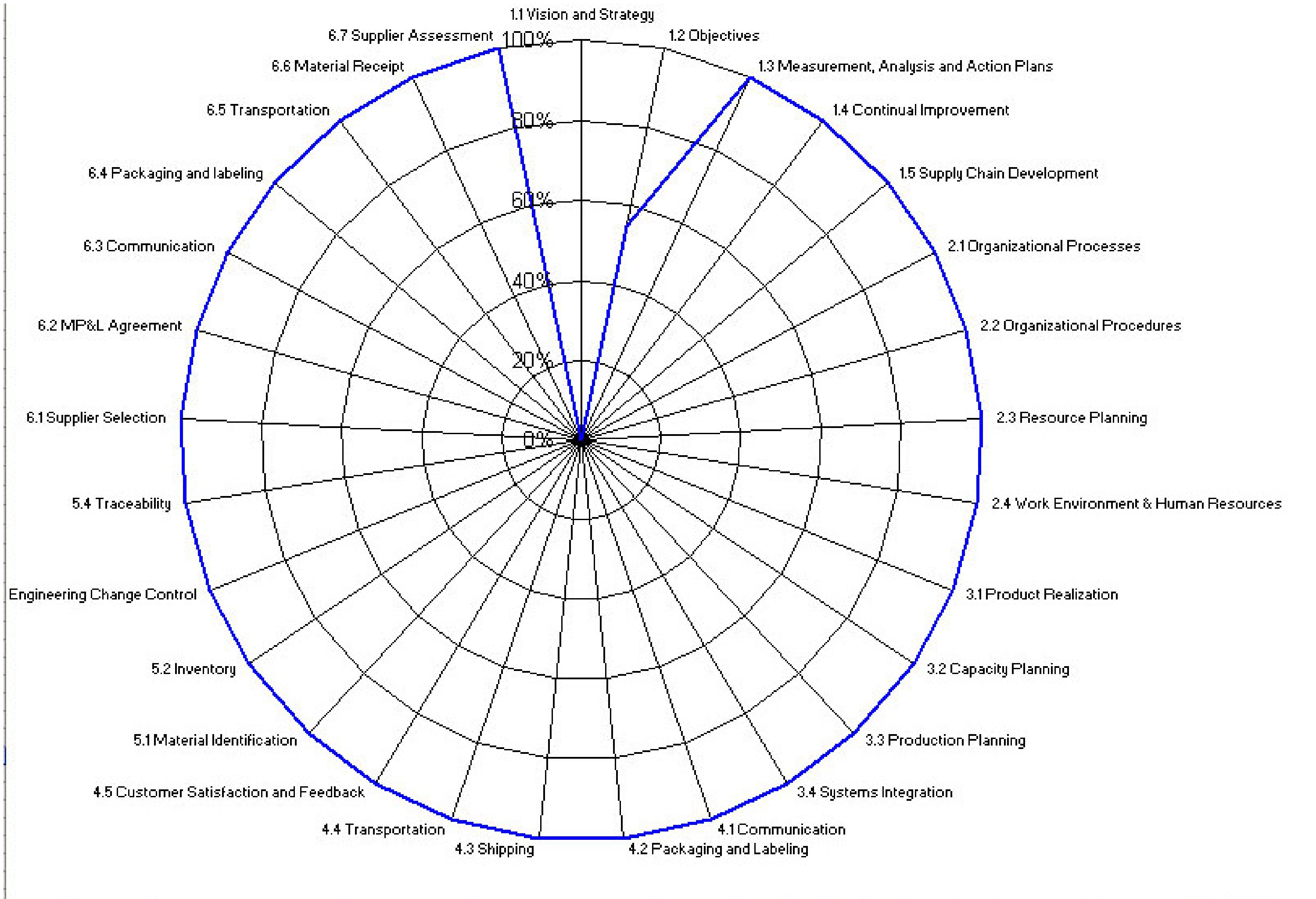
CLASSIFICATION

B



Introduction & Instructions | Assessment | Scoring Summary | Gap Analysis | **Radar Chart** | Radar Charts - Subchapters

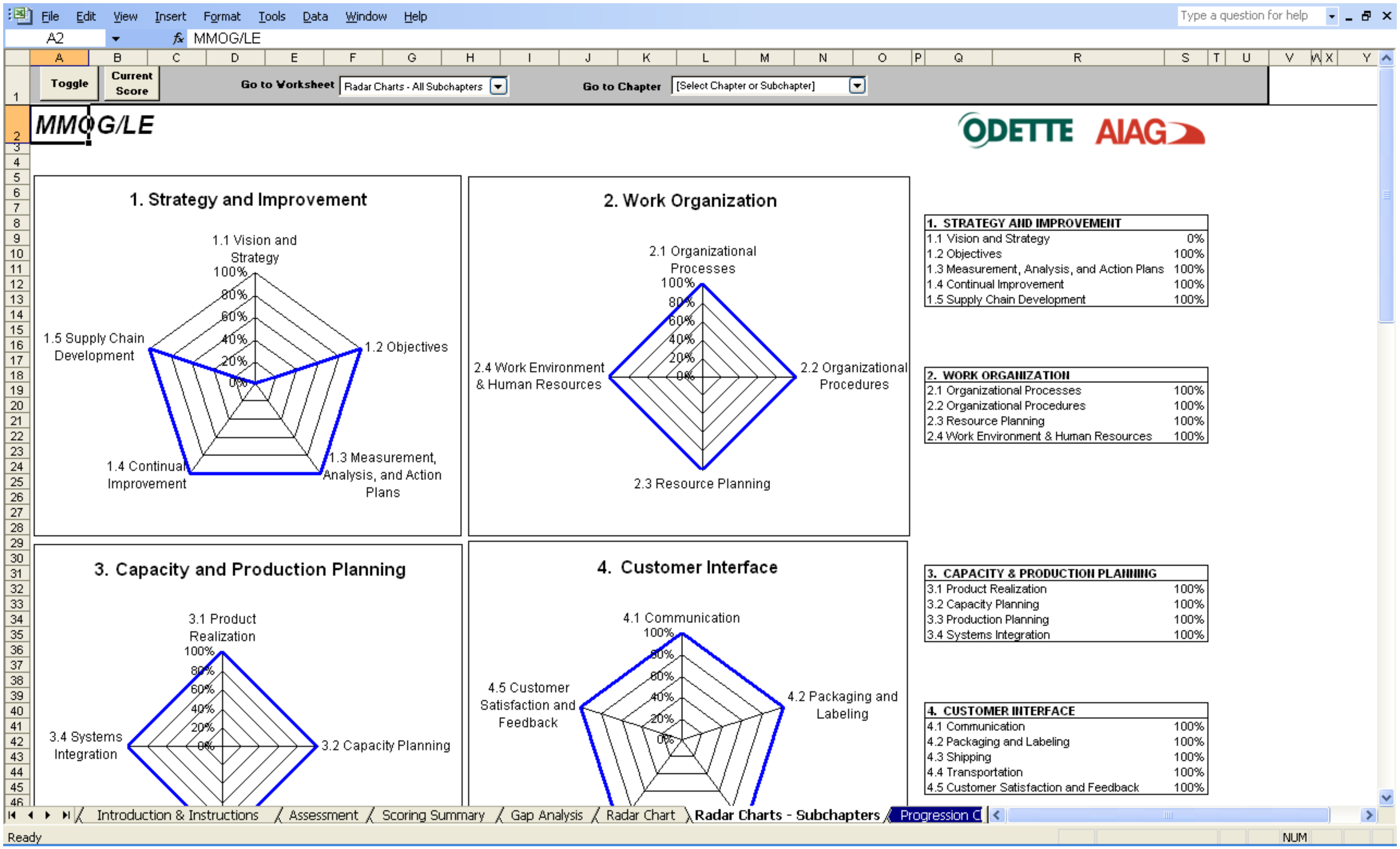
Radar Chart Views雷达图



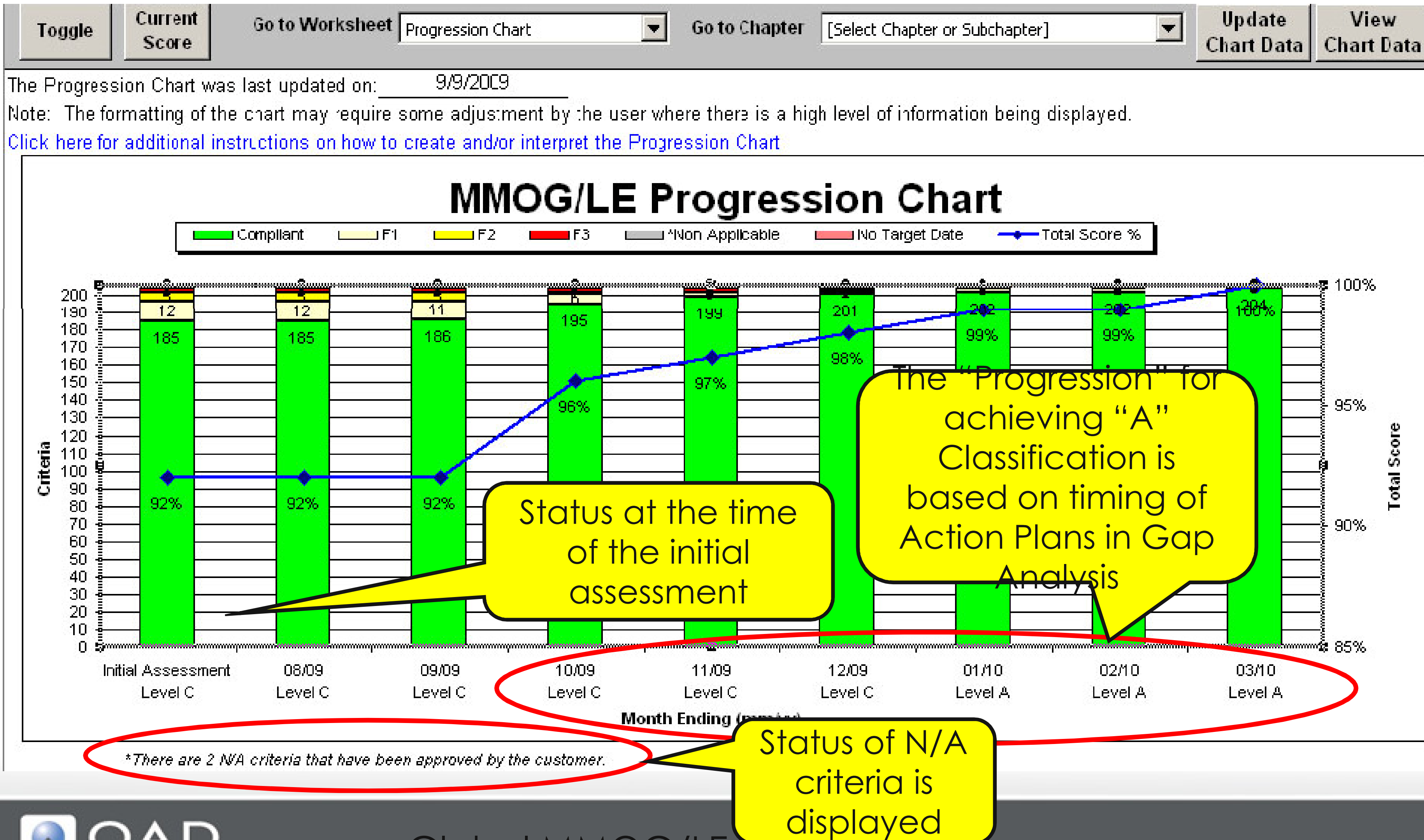
ALL SUB-CHAPTERS	
1.1 Vision and Strategy	0%
1.2 Objectives	55%
1.3 Measurement, Analysis and Action Pla	100%
1.4 Continual Improvement	100%
1.5 Supply Chain Development	100%
2.1 Organizational Processes	100%
2.2 Organizational Procedures	100%
2.3 Resource Planning	100%
2.4 Work Environment & Human Resourc	100%
3.1 Product Realization	100%
3.2 Capacity Planning	100%
3.3 Production Planning	100%
3.4 Systems Integration	100%
4.1 Communication	100%
4.2 Packaging and Labeling	100%
4.3 Shipping	100%
4.4 Transportation	100%
4.5 Customer Satisfaction and Feedback	100%
5.1 Material Identification	100%
5.2 Inventory	100%
5.3 Engineering Change Control	100%
5.4 Traceability	100%
6.1 Supplier Selection	100%
6.2 MP&L Agreement	100%
6.3 Communication	100%
6.4 Packaging and labeling	100%
6.5 Transportation	100%
6.6 Material Receipt	100%
6.7 Supplier Assessment	100%

Introduction & Instructions / Assessment / Scoring Summary / Gap Analysis / Radar Chart / **Radar Charts - Subchapters**

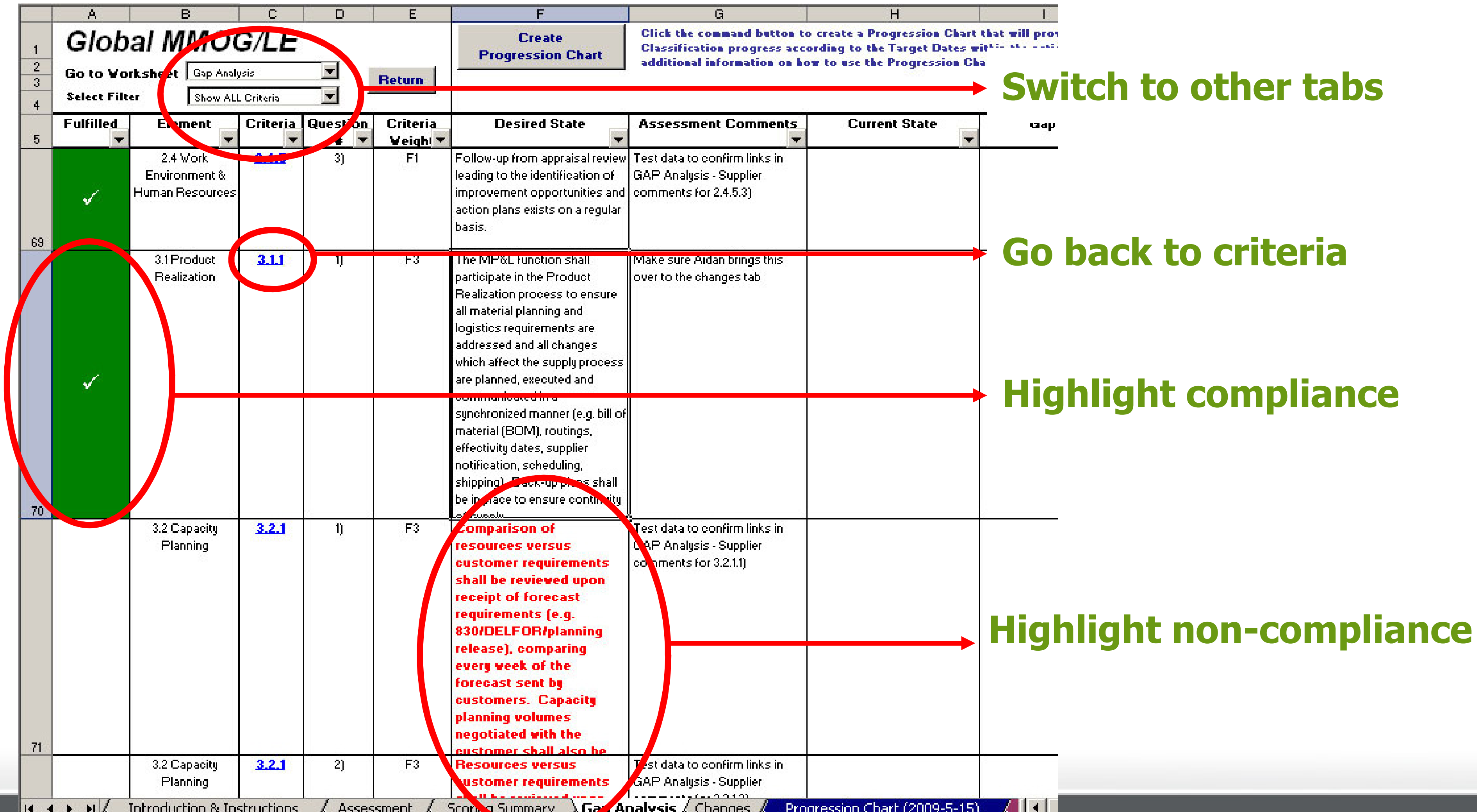
Radar Chart Views雷达图



Progression Chart 进度图



Other Features其他功能



Glossary术语

- There are over 180 items in the glossary to assist in the interpretation of terms throughout the document. 有180个术语帮助理解整个文档

Top OEM Non-Conformances
(Based on DaimlerChrysler and Ford audits)
不符合OEM厂标准主要体现在以下几方面
（基于克莱斯勒和福特的评审）

1. Bar code labels are inaccurate
   条码标签不正确

1. Inability to communicate requirements electronically throughout the supply chain
   整个供应链无法实现电子交流的需求

3. Lack of control of Work-In-Process
   缺少车间管理控制

4. Lack of control of First In/First Out (FIFO)
   缺少FIFO控制

5. Controls to prevent shipping discrepancies (including behind schedule checks)
   防止装运差异的控制，包括装运滞后检验

Top OEM Non-Conformances (Based on DaimlerChrysler and Ford audits)
不符合OEM厂标准主要体现在以下几方面（基于克莱斯勒和福特的评审）

6. ASN data is not generated automatically
   ASN数据不能自动创建
7. Responding to unexpected changes in demand
   对未预期变化的响应
8. Inadequate storage location labeling
   存储库位标签不足
9. General EDI usage including integration into MRP
   EDI应用，包括与MRP集成
10. Key operating system measurables not being tracked by senior management
    关键操作系统衡量，无法被高级管理部门追踪

50% of issues deal with incorrectly processing and handling electronic data with both customers and suppliers
50%问题是客户与供应商不能按正确流程，正确的电子数据进行处理

Why MMOG/LE?为什么要用
MMOG/LE Case Study 案例介绍

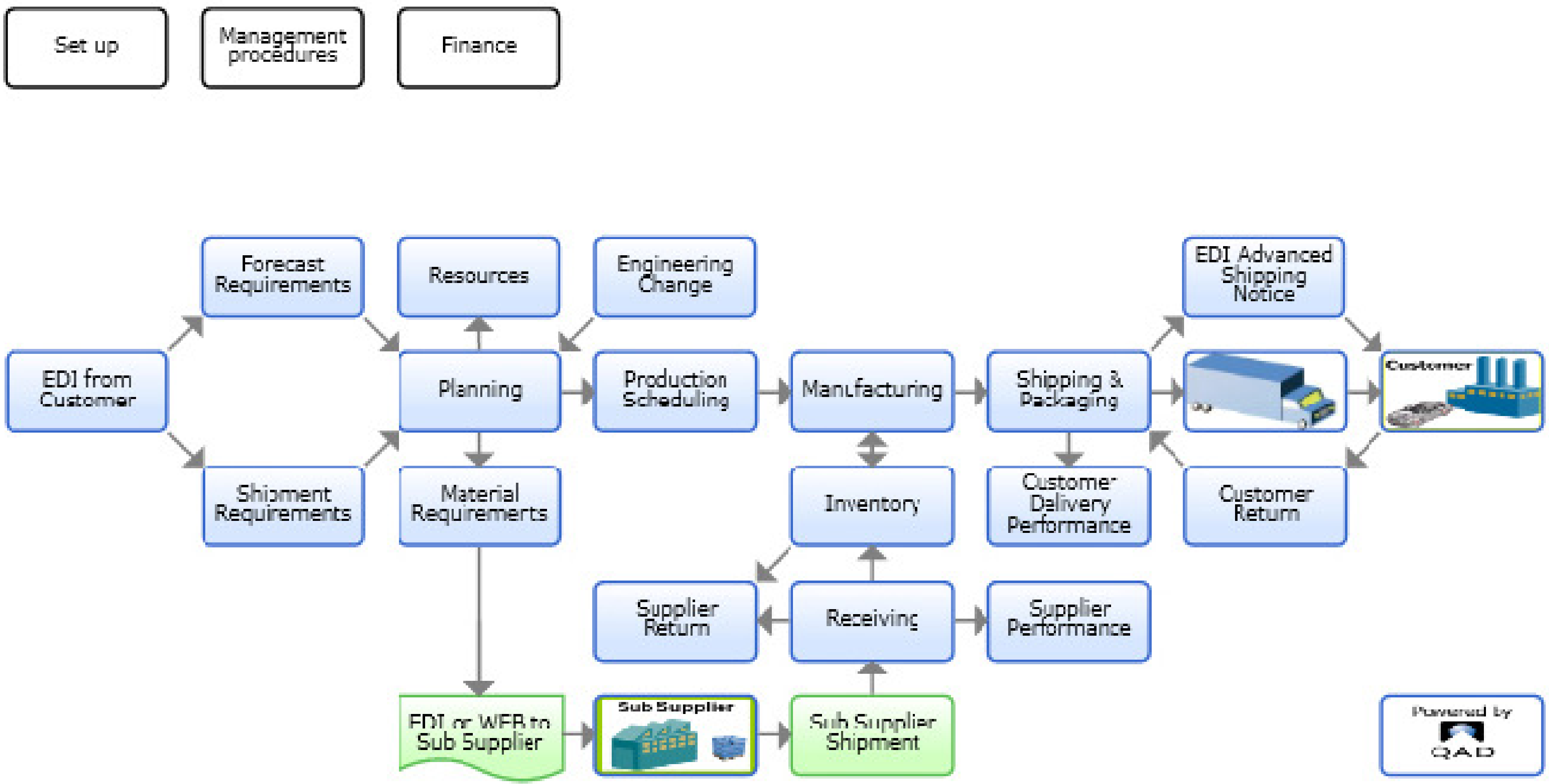
Challenges in the Supply Chain
供应链关键挑战

- Capacity fluctuations 能力困扰
- Volatile schedules 不确定的生产日程
- Supply chain visibility 供应链可视化要求
- Work force reductions劳动力减少

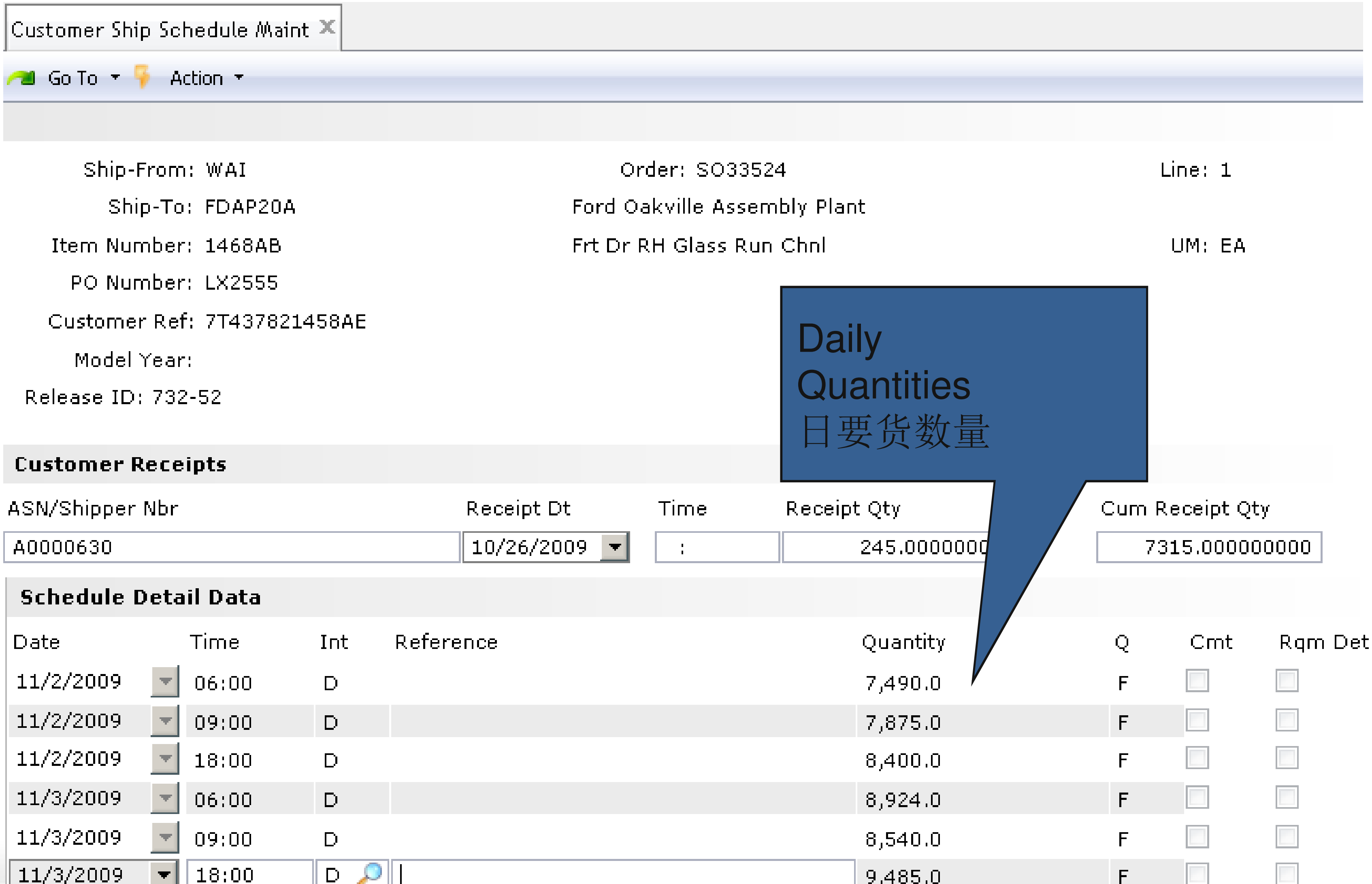
MMOG/LE Addresses these Challenges
MMOG/LE针对这些挑战

- Integrating customer EDI data receiving through final shipment 通过EDI整合客户的最终发货计划
- Capacity Planning 能力计划
- Bar code labeling 条码标签
- Sub supplier visibility 子供应商可视化
- Process control 流程控制
- Inventory management 库存管理

MMOG/LE Processes MMOG/LE流程



Integrating Customer EDI Data 电子数据交换整合客户信息



Integrating Customer EDI Data
电子数据交换整合客户信息

Production Line Schedule Bro...

Actions | Print | Add to Favorites | Chart | Chart Designer | Refresh

Production Line	Parent Item	Description	Due Date	Quantity Scheduled	Quantity Completed	Quantity Open
WLD4	1458AE	Frt Dr RH Glass	10/27/2009	4,800.0	4,800.0	0.0
WLD4	6228AF	Rea DH Plast Ctrl ASM	10/27/2009	450.0	410.0	40.0
WLD4	1458AE	Frt Dr RH Glass	10/28/2009	6,400.0	5,800.0	600.0
WLD4	6228AF	Rea DH Plast Ctrl ASM	10/28/2009	230.0	0.0	230.0
WLD4	1458AE	Frt Dr RH Glass	10/29/2009	4,800.0	0.0	4,800.0
WLD4	6228AF	Rea DH Plast Ctrl ASM	10/29/2009	620.0	0.0	620.0
WLD4	1458AE	Frt Dr RH Glass	10/30/2009	2,400.0	0.0	2,400.0
WLD4	6228AF	Rea DH Plast Ctrl ASM	10/30/2009	270.0	0.0	270.0

Schedule Adherence
主生产计划

Integrating Customer EDI Data电子数据交换整合客户信息

Shipment Report

Wagon Automotive Inc

02/29/08 10:15:23

Page: 1

Site: WAI Wagon Automotive Inc

Customer: FDAP16A FD Wayne

Order	Ln Item Number	Due Date	Performa	Required	Qty Ordered UM	Ship Qty
WAAP16A	1 3748AB	02/29/08			1,080.0 EA	0.0
	2 3749AB	02/29/08			1,080.0 EA	0.0
	3 57A30AA	02/29/08			5,600.0 EA	0.0
	4 57A31AA	02/29/08			5,600.0 EA	0.0

Customer: FDAP20A FD Oakville

Order	Ln Item Number	Due Date	Performa	Required	Qty Ordered UM	Ship Qty
WAAP20A	1 1458AE	02/29/08			350.0 EA	0.0
	2 1459AE	02/29/08			210.0 EA	175.0
	2 1459AE				350.0 EA	0.0
	3 6228AF				99.0 EA	0.0
	4 6229AF				99.0 EA	0.0

Customer: GM19078 GM Lordstown

Order	Ln Item Number			uired	Qty Ordered UM	Ship Qty
WA19078	1 8698				160.0 EA	0.0
	2 8699				160.0 EA	0.0
	2 8699	02/29/08			20.0 EA	0.0
	3 8700	02/29/08			160.0 EA	0.0
	3 8700	02/29/08			340.0 EA	0.0
	4 8701	02/29/08			160.0 EA	0.0
	4 8701	02/29/08			400.0 EA	0.0
	5 9166	02/29/08			220.0 EA	0.0
	6 9167	02/29/08			220.0 EA	0.0
	6 9167	02/29/08			55.0 EA	0.0

Shipments
to be made
Today 今天发货量

Integrating Customer EDI Data 电子数据交换整合客户信息

PRODUCTS REQUIRED - COMPLETED

FORD LINE 10

Metric Name	Metric Result	Total Result	0 20 40 60 80 100	
ON TIME COMPLETION	6	8		75%

VOLVO LINE 20

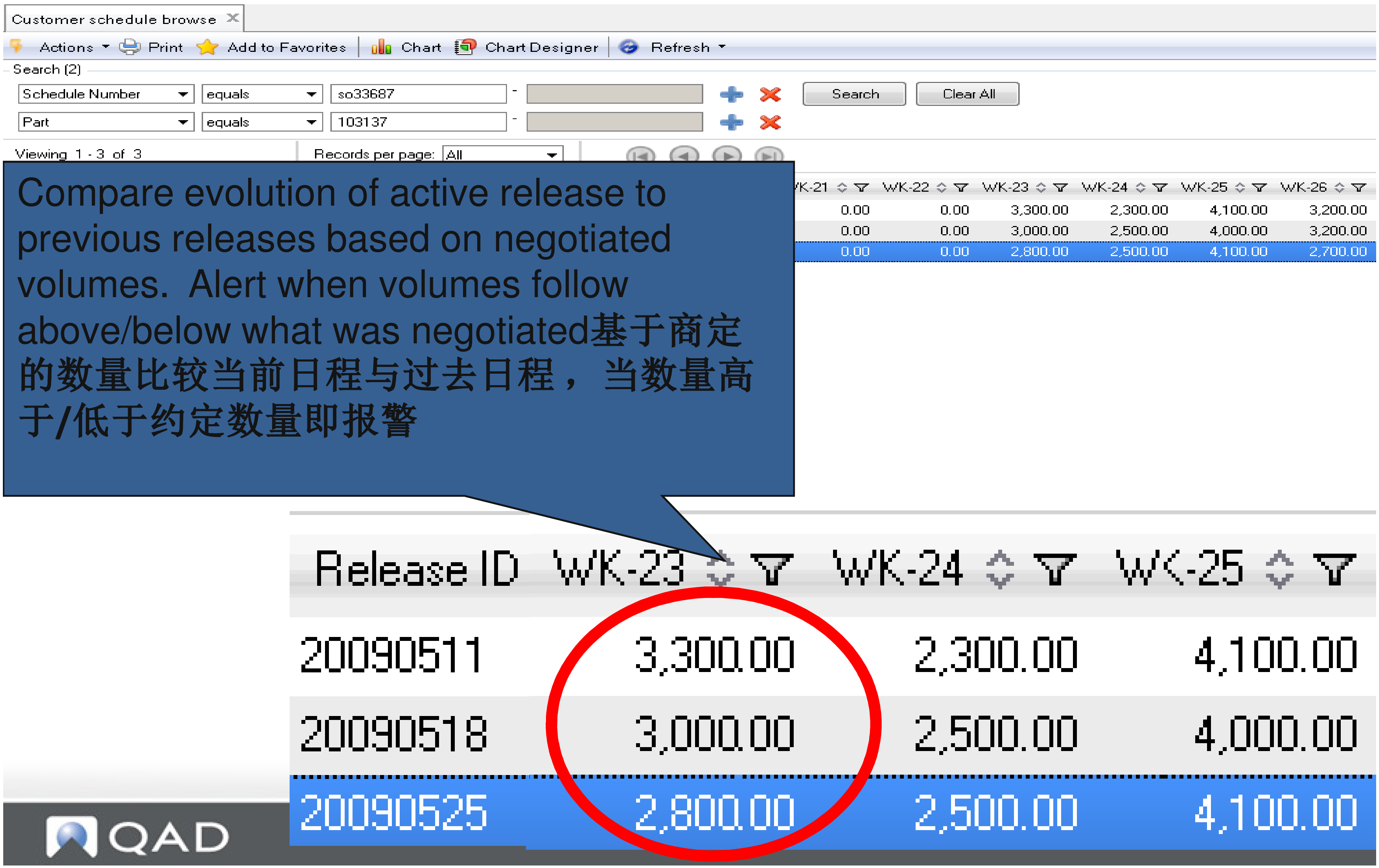
Metric Name	Metric Result	Total Result	0 20 40 60 80 100	
ON TIME COMPLETION	22	22		100%

VOLVO TRUCK LINE 30

Metric Name	Metric Result	Total Result	0 20 40 60 80 100	
ON TIME COMPLETION	3	5		60%

Capacity Planning 能力计划

Compare evolution of active release to previous releases based on negotiated volumes. Alert when volumes follow above/below what was negotiated基于商定的数量比较当前日程与过去日程，当数量高于/低于约定数量即报警



Shipping clerk scans production label to create shipping label
发货员扫描生产标签以建立发运标签

Bar Coding Labeling with Customer
使用客户的条码标签

Attach shipping label in real-time实时贴上发运标签

Scan the shipping label to create shipping documentation (shipper, bill of lading and ASN)
扫描发运标签创建发货单

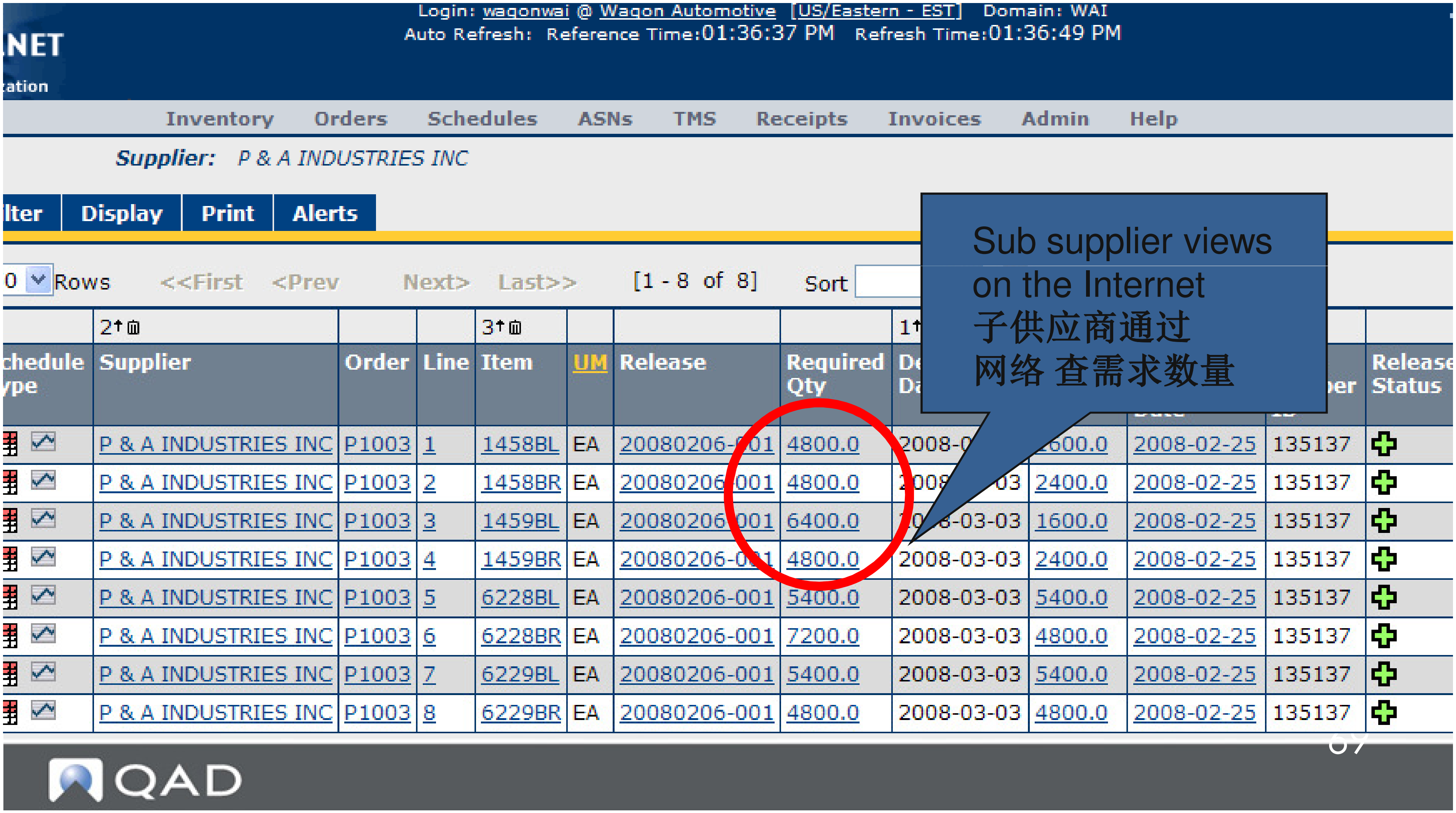
Sub Supplier Visibility 子供应商可视化

Schedule Detail Data

Date	Time	Reference	Quantity	Q
3/3/2008	:		4,800.0	P
3/10/2008			4,800.0	P
3/17/2008			6,400.0	P
3/24/2008			4,800.0	P

Release calculated in planning system
计划系统的供应商发货数量计算

Sub Supplier Visibility (Schedules)子供应商可视化（日程）



chedule ype	2↑ Supplier	Order	Line	3↑ Item	UM	Release	Required Qty	1↑ De Da			per	Release Status
	P & A INDUSTRIES INC	P1003	1	1458BL	EA	20080206-001	4800.0	2008-0	600.0	2008-02-25	135137	
	P & A INDUSTRIES INC	P1003	2	1458BR	EA	20080206-001	4800.0	2008-03	2400.0	2008-02-25	135137	
	P & A INDUSTRIES INC	P1003	3	1459BL	EA	20080206-001	6400.0	20 8-03-03	1600.0	2008-02-25	135137	
	P & A INDUSTRIES INC	P1003	4	1459BR	EA	20080206-001	4800.0	2008-03-03	2400.0	2008-02-25	135137	
	P & A INDUSTRIES INC	P1003	5	6228BL	EA	20080206-001	5400.0	2008-03-03	5400.0	2008-02-25	135137	
	P & A INDUSTRIES INC	P1003	6	6228BR	EA	20080206-001	7200.0	2008-03-03	4800.0	2008-02-25	135137	
	P & A INDUSTRIES INC	P1003	7	6229BL	EA	20080206-001	5400.0	2008-03-03	5400.0	2008-02-25	135137	
	P & A INDUSTRIES INC	P1003	8	6229BR	EA	20080206-001	4800.0	2008-03-03	4800.0	2008-02-25	135137	

Sub Supplier Visibility (ASN via Internet)子供应商可视化 (ASN)

QAD

Sub Supplier Visibility (Alerting)子供应商可视化(报警)

Supplier	Site	Item	UM	MIN	QOH	MAX
GKN DRIVELINE SA	4311	10195738	EA	1000.0	206.0	3000.0

email

Alert from MFGX.net for Item: 10195738

MFGX Alert to: ex. 11/02/2009 07:

Show

```
The inventory quantity-on-hand for
item '10195738' at site '4311' for
organization 'GKN Driveline12' is at
or below the minimum level of 1000.0.
The current quantity is 206.0.
```

text message

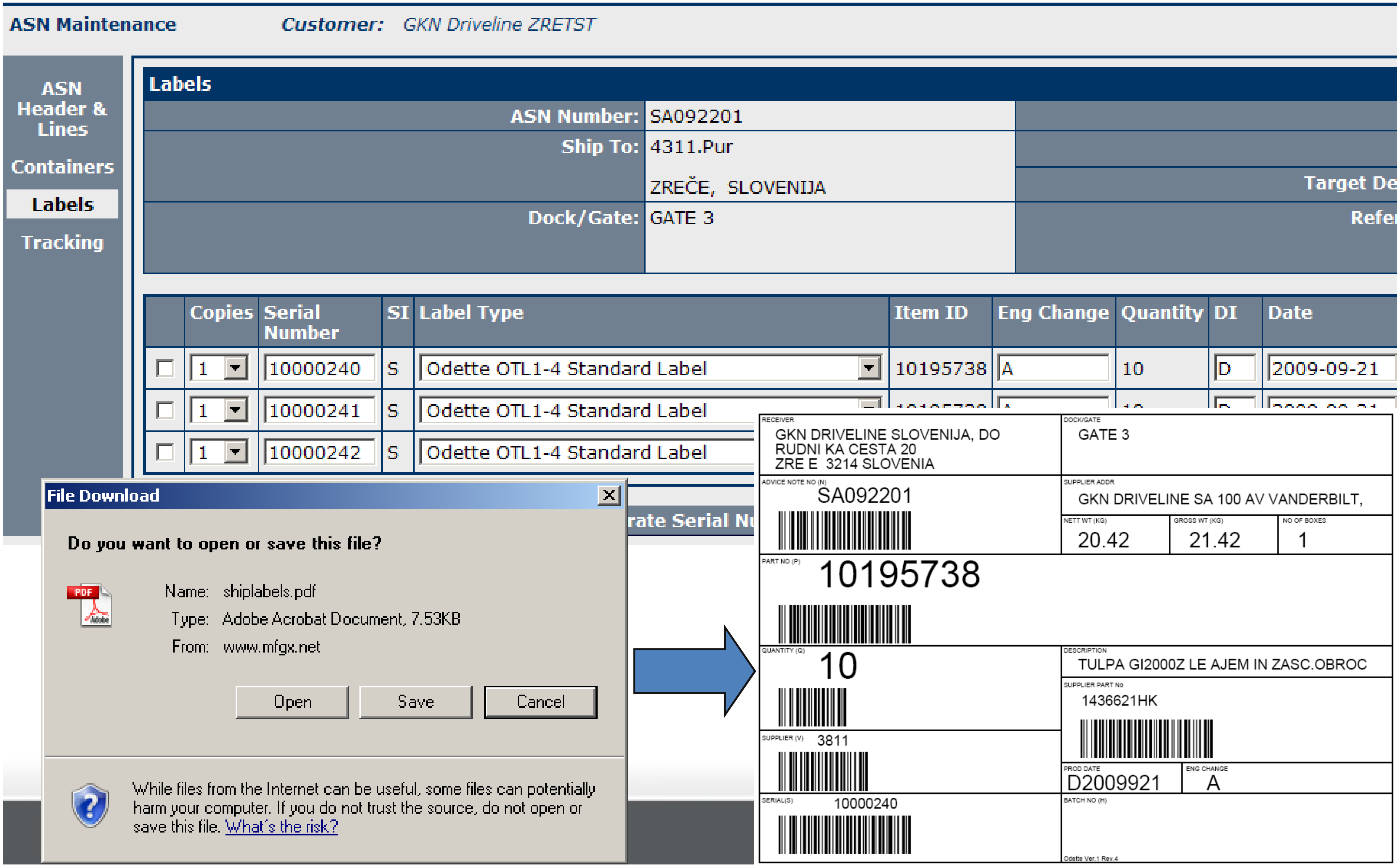
From: MFGX Alert

Alert from MFGX.net for Item: 10195738

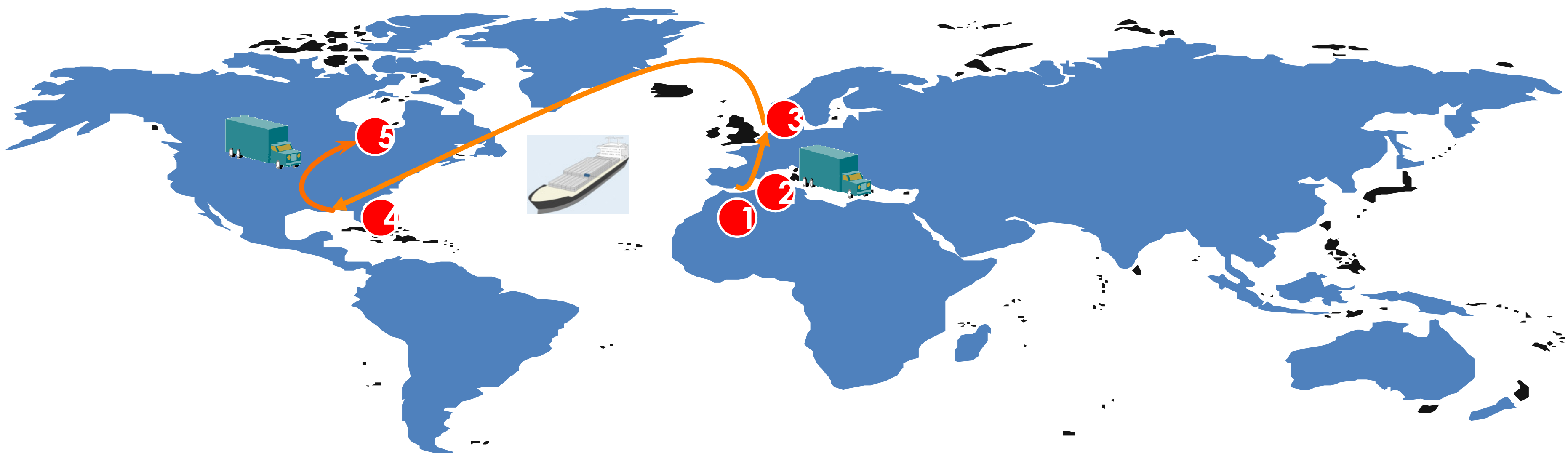
Nov 2, 2009 19:39

The inventory quantity-on-hand for item '10195738' at site '4311' for

Sub Supplier Labels 子供应商标签



Sub Supplier Visibility (Long Distance Suppliers)子供应商可视化 (长距离供应商）

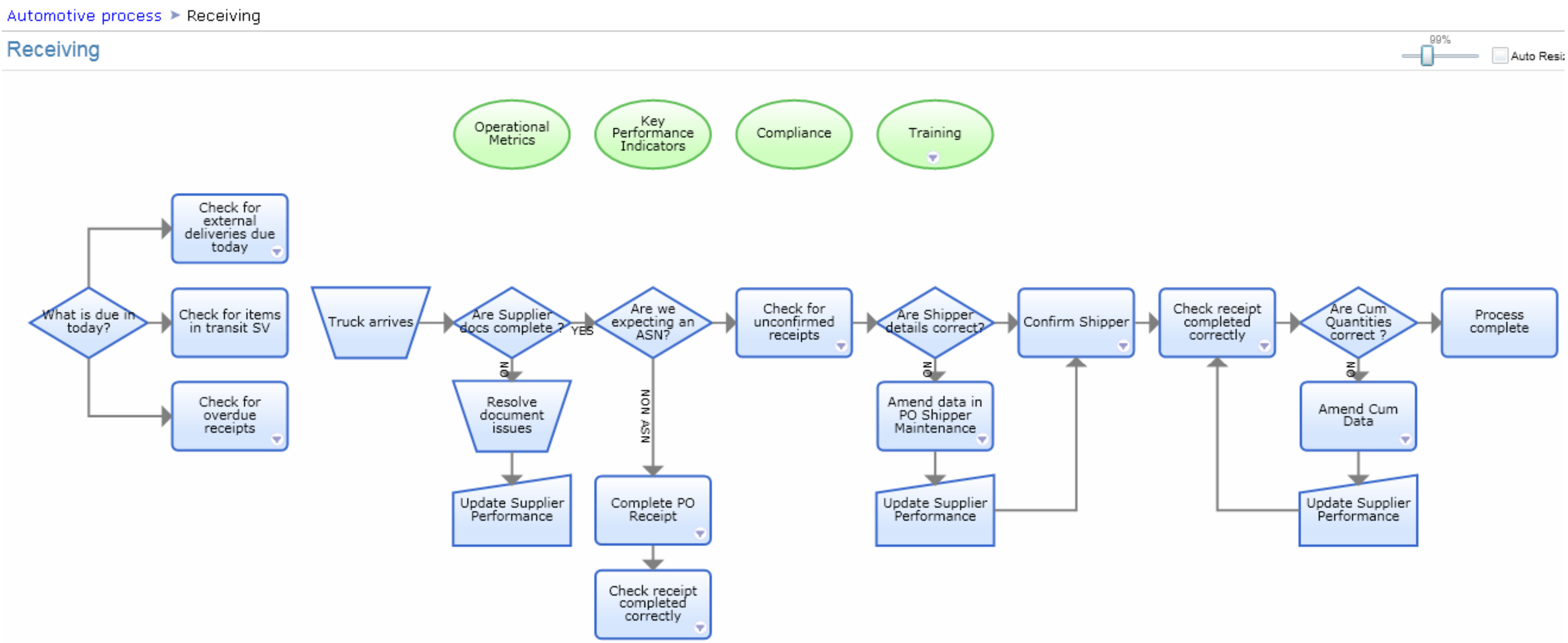


1 **ASN Maintenance**

	Line	Item ID	Quantity	UM	Shipper ID		Replenish	Site	Order Number	Line	Release	Delivery Date
×	1	IT1	1000.0	EA	89901	Detail	0	MAN	PO200336	1	20080807	2008-08-11 00:00:00.0

	Description	Location	Alert	Current Estimated	Current Scheduled	Predicted Times	Real-Time Estimated	Confirmed	Notified By
2	⊞ Picked Up At Supplier	Siegburg		25-Nov-2008 04:00		25-Nov-2008 04:00	25-Nov-2008 04:24	✓	
	⊞ Arrived Consol Center	Bremen		26-Nov-2008 04:00	26-Nov-2008 13:24	26-Nov-2008 13:24	26-Nov-2008 13:24	✓	Kuehne Nagel
3	⊞ Loaded/Departed on Ship	Bremerhaven	⚠	27-Nov-2008 13:24	28-Nov-2008 13:00	28-Nov-2008 13:00	03-Dec-2008 16:55	☐	Kuehne Nagel
4	⊞ Arrived Port of Arrival	Houston		12-Dec-2008 06:24	10-Dec-2008 06:00	10-Dec-2008 06:00	18-Dec-2008 09:55	☐	Kuehne Nagel
	⊞ Cleared Import Customs	Houston		13-Dec-2008 06:24		13-Dec-2008 06:24	19-Dec-2008 09:55	☐	
5	⊟ Delivered to Destination	McAdoo		16-Dec-2008 07:24		16-Dec-2008 07:24	22-Dec-2008 10:55	☐	

Process Control (Receiving Process)流程控制（收货流程）



- Work flow 工作流程
- Work aids 工作手册
- Training　培训

- Tool tips 工具
- Link to transaction, browse, reports, internet portals, etc. 连接到交易，查询、报告、网站等

QAD

Inventory Control 库存控制

Inspector checks quality and scans to backflush real-time in ERP/planning system质量合格检验后入库扫描条码并实时更新计划系统

Inventory Control库存控制

Matches location in ERP/ planning system 计划系统与实际库位匹配

Inventory Control库存控制

Inventory Detail by Item Browse ×

Records to show: All

Item Number | starts at

Item Number	Site	Qty On Hand - Inv Mstr	Qty On Hand - Inv Detail	L
.0245X.9570	WAI	11,935.3448	8,460.0	4WALL
.0245X.9570	WAI	11,935.3448	0.0	INSPECT
.0245X.9570	WAI	11,935.3448	3,475.3448	RM3
.031X2.7600	W		0.0	RM4
.031X2.7600	W		6,819.798	ZDNBEND
.039X2.0000	W		0.0	4WALL
.039X2.0000	WAI	3,919.6007	0.0	INSPECT
.039X2.0000	WAI	3,919.6007	3,919.6007	RM4
.039X2.165R	WAI	13,127.572	4,640.301	4WALL
.039X2.165R	WAI	13,127.572	0.0	HOLD
S548FL	WAI	39.0	39.0	
S548FR	WAI	43.0	43.0	
S548RL	WAI	21.0	21.0	
S548RR	WAI	1.0	1.0	4WALL

Inventory locations
存货库位

Manage returnable containers
管理周转箱

让我们看看详细文档