

Performance Measurement Business Message Standard (BMS)

Release 3.6, Ratified, Mar 2023





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Business Requirements Document (BRAD) Reference

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BRAD Trading Partner Performance Management	Nov 2008	Issue 1.0.0
eCom Domain Common Library	Mar 2011	BMS Release Version 3.0.0
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Date of Change	Version	Changed By	Reason for Change	Summary of Change
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1 Business Domain View

1.1 Introduction

Message Definition

The Performance Measurement message allows trading partners to identify goals for the measures that that they wish to share, as well as exchange the values for those measures.

Principles

The scope of the message includes key measures of Sales, Operations, Supply Chain, and Data Accuracy performance, including any of the following specific measures:

Sales

- 1. Sales Growth (%)
- 2. Share (%)
- 3. Retail Item Gross Margin (%)
- 4. Retail Gross Profit Margin (%)
- 5. Forecast Accuracy (%)
- 6. Markdown (%)

Supply Chain

- 7. Out of Stock (%)
- 8. Service Level / Fill Rate (%)
- 9. Order to Delivery Cycle Time (Hours)
- 10. On Time Delivery (%)
- 11. Finished Goods Inventory Cover (Days)

Operations

- 12. Order Item /Quantity Change (%)
- 13. Invoice Accuracy (%)
- 14. On Time Payment (%)
- 15. Unsaleables (%)

Data Accuracy

- 16. Item Master Data Accuracy (%)
- 17. Item Data Synchronisation (%)

1.2 References

Reference Name	Description
Trading Partner Performance Management – BRAD Issue 1.0.0	Provide the definitions, formulas, and examples for the 17 core measures.



Reference Name	Description
New Ways of Working Together Initiative (NWWT)	NWWT is a joint project of Procter & Gamble, J.M. Smucker Co., Coca-Cola, Wegmans Food Markets, Safeway, Kroger, Oracle and a number of industry associations. One of the group's initiatives has been to use common goals and common measures to drive opportunities for growth and avoid issues that could lead to disruptions. Several of the TPPM core measures were based on the Common Goals and Common Measures identified in the NWWT initiative.
VICS Collaborative Planning Forecasting and Replenishment (CPFR®), Global Commerce Initiative Recommendation, June 30, 2001	A not-for-profit association with a mission to take a global leadership role in the development of business guidelines and specifications; facilitating implementation through education and measurement, resulting in the improvement of the retail supply chain efficiency and effectiveness, which meet or exceed customer and consumer expectations. GS1 US is the secretariat to the Voluntary Interindustry Commerce Solutions Association.
BMS eCom Common Library 3.6	The documented design of components that are used in multiple messages. In the eCom Domain.
BMS Shared Common Library 3.6	The documented design of components that are used in both the eCom Domain and GDSN

2 Business Context

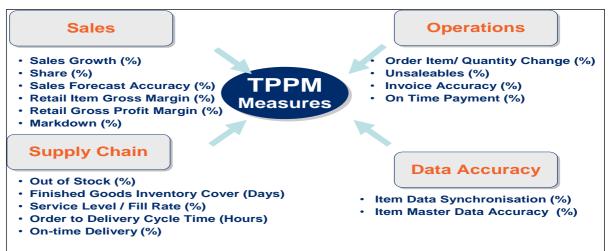
Context Category	Value(s)
Industry	All
Geopolitical	All
Product	All
Process	eCom Plan
System Capabilities	GS1 Standard
Official Constraints	None

3 Business Transaction View

The Buyer and Seller utilize standardised calculation methods and nomenclature to describe the performance of their trading relationship, and explicitly identify the levels of detail, time period and other parameters used. Performance may be evaluated relative to goals that the Buyer and Seller have shared, utilizing the same level of detail, time period, and parameters as the results data. Further root cause analysis is done where needed.

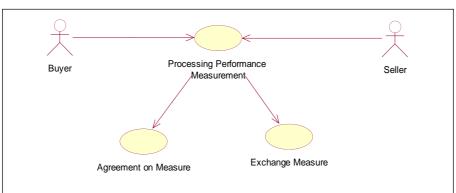


Figure 3-1 TPPM Measures



3.1 Business Transaction - Processing Performance Measurement

Use Case Diagram



Use Case Definition

Use Case ID	UC-1
Use Case Name	Processing Performance Measurement
Use Case Description The objective is for a pair of trading partners to elaborate upon operational conditions and key metrics that would identify business issues or achievements.	
Actors (Goal) Performance Measurement is a two-actor system involving a collaborative effor between a buyer and a seller across one or more locations. The lead actor in the collaboration depends upon the scenario most appropriate to the trading partner business situation.	
Performance Goals	The ability to exchange performance goals and results.
Preconditions	A collaboration agreement and joint business plan must be in place. If goals are to be exchanged, they must be prepared and received by the trading partners.



Use Case ID	UC-1			
Post conditions	Successful Condition: Trading partners review their performance and take corrective action when necessary. Unsuccessful Condition: Operational activities and key metrics are not exchanged, preventing trading partners from reviewing their performance.			
Scenario	Begins with the receipt of data by one of the Actors Continues with			
	Step Actor Activity Step			
	1	Buyer, Seller	Calculates performance results.	
	2	Buyer, Seller	Transmits Performance Measurement message	
	3 Buyer, Seller Reviews performance relative to goals (if provided). Ends with corrective action to improve performance, if required.			
Alternative Scenario	Not Applicable			
Related Requirements	Not Applicable			
Related Rules	Not Applicable			

3.2 Business Process - Agreement on Measure

Use Case Definition

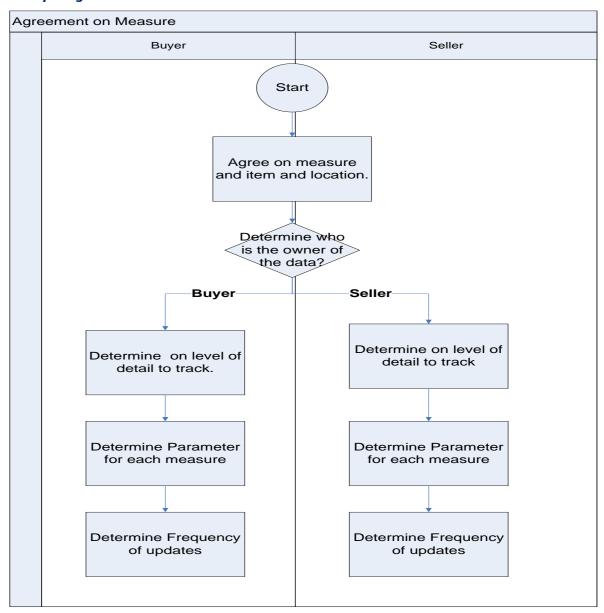
Use Case ID	UC-1.1	
Use Case Name	Agreement on Measure	
Use Case Description	The objective is for a pair of trading partners to agree on which measure to track.	
Actors (Goal)	Performance Measurement is a two-actor system involving a collaborative effort between a buyer and a seller across one or more locations. The lead actor in the collaboration depends upon the scenario most appropriate to the trading partner's business situation.	
Performance Goals	The ability to agree on the measure selection.	
Preconditions	A collaboration agreement and joint business plan must be in place. There must be an agreement from buyer and seller to process Performance Measurement.	
Post conditions	Successful Condition: Trading partners agree to the measure and plan to exchange the information. Unsuccessful Condition: Trading partners cannot agree to the measure.	



Use Case ID	UC-1.1					
Scenario	Begins with the precondition with an agreement from and seller to process performance measurement. Continues with					
	Step #	Actor	Activity Step			
	1	Joint	Agree on measure with item and location			
	2	Decision	Determine who is the owner of the data?			
	3	Buyer, Seller	Determine on level of detail to track			
	4	Buyer, Seller	Determine parameters for each measure			
	5	Buyer, Seller	Determine frequency of updates.			
	Ends wit	h plans to exch	ange this information.			
Alternative Scenario	Receive	Receive Performance Measurement Message without measure results data.				
Related Requirement	Not Appl	icable				
Related Rule	Not Appl	icable				



Activity Diagram



3.3 Business Process - Exchange Measure

Use Case Definition

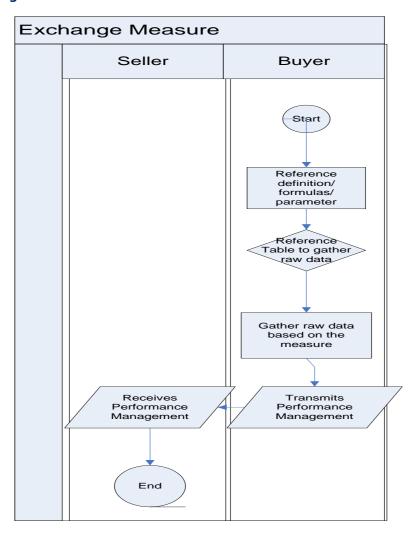
Use Case ID	UC-1.2
Use Case Name	Exchange Measure
Use Case Description	The objective is for a pair of trading partners to exchange measure information.
Actors (Goal)	Performance Measurement is a two-actor system involving a collaborative effort between a buyer and a seller across one or more locations. The lead actor in the collaboration depends upon the scenario most appropriate to the trading partner's business situation.
Performance Goals	The ability to exchange performance goals and results.
Preconditions	There must be an agreement on which measure is to be exchanged.



Use Case ID	UC-1.2	UC-1.2					
Post conditions Scenario	Trading Unsucce Trading	Successful Condition: Trading partners can exchange measure information. Unsuccessful Condition: Trading partners cannot exchange measure information. Begins with the agreement on measure to be exchanged					
	In the ex	_	ne Buyer is the data source.				
	Step #	Actor	Activity Step				
	1	Buyer	Reference definition/ formulas/ parameter				
	2	Buyer	Determine what raw data is needed				
	3	Buyer, Seller	Gather raw data and calculate measure result				
	4	Buyer	Transmit measure result via Performance Measurement				
		Ends with Seller receiving the Performance Measurement Message which contains the measures.					
Alternative Scenario	Not App	Not Applicable					
Related Requirement	Not App	licable					
Related Rule	Not App	licable					



Activity Diagram

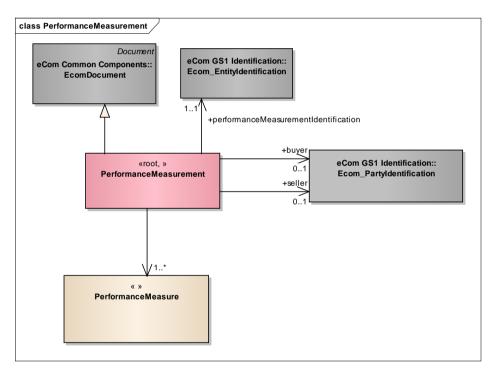




4 Business Information View

4.1 Performance Measurement

Class diagram



GDD report

The content of the PerformanceMeasurement class, its structure and component definitions can be accessed in the Global Data Dictionary: http://apps.qs1.org/GDD/bms/Version3 3/Pages/bieDetails.aspx?semanticURN=urn:qs1:qdd:bie:PerformanceMeasurement

Performance Measurement Business Message Standard (BMS)

Content	Attribute / Role Datatype / Secondary class		Multiplicity	Definition	Requirements
PerformanceMeasu rement				Provides the performance measurement details with the performance measure and related parameters.	
Association		PerformanceMeasure	1*	Provides the performance measures.	
Generalization		EcomDocument		Basic information about the content of the message including version number, creation date and time.	WR 14-000110
Association	seller	Ecom_PartyIdentifica tion	01	Party, which sells products or services to a buyer.	WR 15-000314
Association	performanceMe asurementIden tification	Ecom_EntityIdentific ation	11	The unique identification of the Performance Measurement.	WR 15-000314
Association	buyer	uyer Ecom_PartyIdentifica tion		Party, which buys products or services from a seller.	WR 15-000314

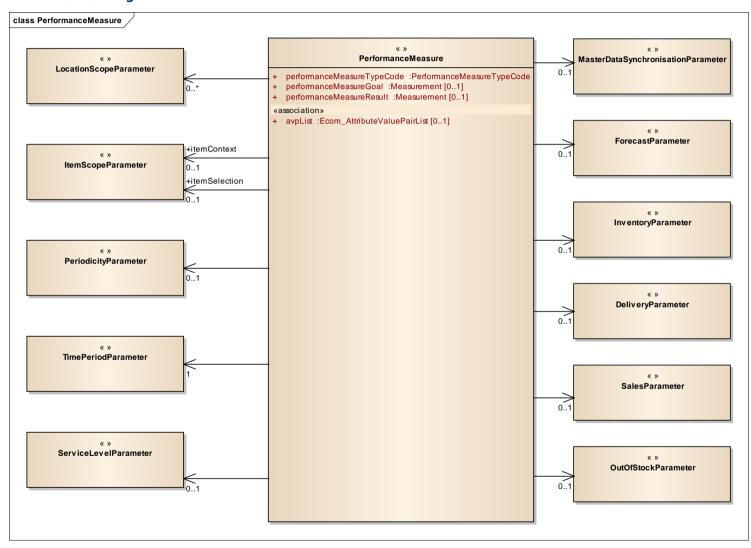


Note: Reference Shared Common Library Business Message (BMS) Release 3.6 and eCom Domain Common Library Business Message (BMS) Release 3.6 for all common information.



4.2 Performance Measure

Class Diagram





GDD Report

The content of the PerformanceMeasure class, its structure and component definitions can be accessed in the Global Data Dictionary: http://apps.gs1.org/GDD/bms/Version3_3/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:PerformanceMeasure

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
PerformanceMeasu re				Provides the performance measure and related parameters.	
Association	itemSelection	ItemScopeParamete r	01	Identifier that indicates the scope of the data being communicated in terms of the item (product) dimension	
Association		OutOfStockParamet er	01	Provides the parameter related to out of stock measurements.	
Association		ServiceLevelParame ter	01	Provides the parameters related to service level.	
Association		LocationScopePara meter	0*	Provides the parameter related to location scope.	
Association		MasterDataSynchro nisationParameter	01	Provides the parameter related to master data synchronisation.	
Association		SalesParameter	01	Provides the parameter related to sales.	
Association		PeriodicityParamete r	01	Provides the periodicity parameter information.	
Association		DeliveryParameter	01	Provides the delivery parameter associated to the performance measure.	
Association		TimePeriodParamet er	11	Provides the time period associated with the specified performance measure.	
Association	itemContext	ItemScopeParamete r	01	Identifier of the range of items over which the share is being measured.	
Association		ForecastParameter	01	Provides the parameter related to forecast.	
Association		InventoryParameter	01	Provides the related inventory parameter information.	
Attribute	performanceMe asureTypeCode	PerformanceMeasur eTypeCode	11	Specifies the type of performance measure.	
Attribute	performanceMe asureGoal	Measurement	01	Provides the ability for trading partners to identify goals for the measures that that they wish to share.	



Performance Measurement Business Message Standard (BMS)

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
Attribute	performanceMe asureResult	Measurement	01	Provides the ability for trading partners to identify results for the measures that that they wish to share.	
Attribute	avpList	Ecom_AttributeValu ePairList	01	Temporary attributes introduced between minor versions.	WR 14-000110

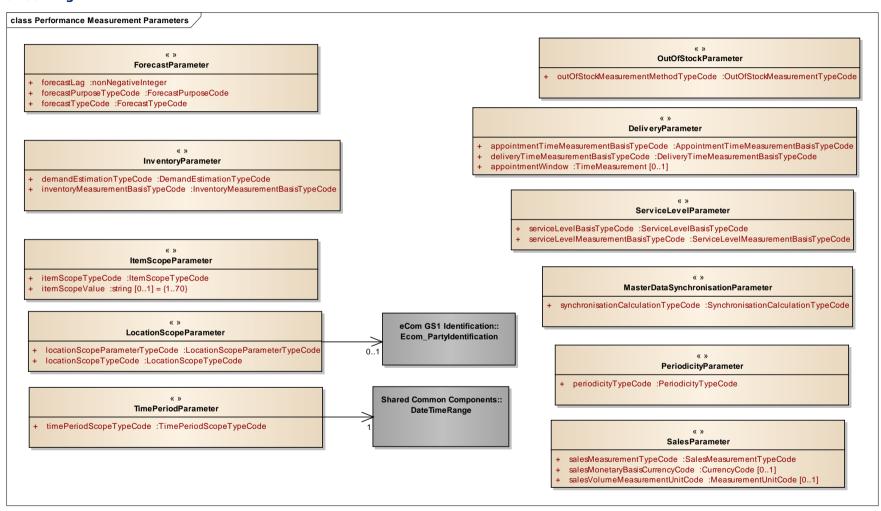


Note: Reference Shared Common Library Business Message (BMS) Release 3.6 and eCom Domain Common Library Business Message (BMS) Release 3.6 for all common information.



4.3 Performance Measurement Parameters

Class Diagram





GDD Report

The content of the PerformanceMeasurementParameters class, its structure and component definitions can be accessed in the Global Data Dictionary:

http://apps.qs1.org/GDD/bms/Version3 3/Pages/bieDetails.aspx?semanticURN=urn:qs1:qdd:bie:PerformanceMeasurementParameters

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
DeliveryParameter				Provides the delivery parameter information.	
Attribute	appointmentTi meMeasuremen tBasisTypeCode	AppointmentTimeMe asurementBasisTyp eCode	11	Specifies whether an on-time delivery calculation considers the appointment date time to be the latest time that the delivery can arrive (the default option), or the center of a delivery window that allows delivers before or after the appointment time by an amount indicated by the Appointment Window parameter	
Attribute	deliveryTimeMe asurementBasis TypeCode	DeliveryTimeMeasur ementBasisTypeCod e	11	Indicates the source of the date to be used to determine whether a delivery was on-time (the original P.O. need-by date, the first scheduled appointment date or the last scheduled appointment date).	
Attribute	appointmentWi ndow	TimeMeasurement	01	The number of minutes before or after the appointment time that a delivery can arrive and still be considered on time, if the Appointment Time Measurement Basis is set to "Appointment Window."	
ForecastParameter				Provides the parameter related to forecast.	
Attribute	forecastLag	nonNegativeInteger	11	Specifies the minimum age of a forecast that is to be compared with actual sales for accuracy measurement.	
Attribute	forecastPurpose TypeCode	ForecastPurposeCod e	11	Specifies whether the forecast is for the amount sold, received or shipped.	
Attribute	forecastTypeCo de	ForecastTypeCode	11	Specifies whether the forecast pertains to all items in the period, only item/location combinations on promotion during the period, or non-promoted items.	
InventoryParamete r				Provides the inventory parameter information.	



Content	Content Attribute / Role		Multiplicity	Definition	Requirements
Attribute	demandEstimati onTypeCode	DemandEstimationT ypeCode	11	Specifies the technique used to estimate demand when measuring inventory cover.	
Attribute	inventoryMeasu rementBasisTyp eCode	InventoryMeasurem entBasisTypeCode	11	Indicator of whether the inventory included in an inventory cover calculation includes inbound (pipeline) inventory.	
ItemScopeParamet er				Provides the item scope parameter information.	
Attribute	itemScopeType Code	ItemScopeTypeCode	11	Specifies the type of item scope (brand, category, etc.) of a goal or measure value.	
Attribute	itemScopeValue	String70	01	Identifier that indicates the scope of the data being communicated in terms of the item (product) dimension.	
LocationScopePara meter				Provides the parameter related to location scope.	
Association		Ecom_PartyIdentific ation	01	Identifier that indicates the scope of the data being communicated in terms of the location (organization/geography) dimension.	WR 15-000314
Attribute	locationScopeP arameterTypeC ode	LocationScopePara meterTypeCode	11	Determines the role of a facility or group of facilities specified in the performance measurement. Depending on the measure selected, multiple location scope selections may be required to fully identify the range of facilities that should be included.	
Attribute	locationScopeT ypeCode	LocationScopeTypeC ode	11	Specifies the type of location scope (store, region, chain) of a goal or measure value.	
MasterDataSynchro nisationParameter				Provides the parameter related to master data synchronisation.	
Attribute	synchronisation CalculationType Code	SynchronisationCalc ulationTypeCode	11	Indicates whether the item data synchronization percentage calculation was based on the total number of items, or the incremental number of items synchronised.	
OutOfStockParame ter				Provides the parameter related to out of stock measurements.	
Attribute	outOfStockMea surementMetho dTypeCode	OutOfStockMeasure mentTypeCode	11	Specifies the technique used to measure the out of stock percentage being reported.	



Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
PeriodicityParamet er				Provides the parameter related to periodicity.	
Attribute	periodicityType Code	PeriodicityTypeCode	11	Specifies the time unit of measure of a result.	
SalesParameter				Provides the parameter related to sales.	
Attribute	salesMeasurem entTypeCode	SalesMeasurementT ypeCode	11	Indicates whether the values used in the calculation are on a volume (unit) basis, or value (monetary) basis.	
Attribute	salesMonetaryB asisCurrencyCo de	CurrencyCode	01	Indicates the sales measurement currency.	
Attribute	salesVolumeMe asurementUnitC ode	Measurement	01	Indicates the sales volume unit of measure.	
ServiceLevelParam eter				Provides the parameters related to service level.	
Attribute	serviceLevelBas isTypeCode	ServiceLevelBasisTy peCode	11	Indicator of the basis for which a Service Level is to be calculated – in terms of the percentage of orders filled 100%, the percentage of order lines filled 100%, or the percentage volume of product filled vs. ordered	
Attribute	serviceLevelMe asurementBasis TypeCode	ServiceLevelMeasur ementBasisTypeCod e	11	Indicates whether a fill rate / service level calculation is based upon the quantity shipped or quantity received.	
TimePeriodParamet er				Provides the time period parameter for the performance measure type.	
Association		DateTimeRange	11	Provides the time period format.	
Attribute	timePeriodScop eTypeCode	TimePeriodScopeTy peCode	11	Specifies the type of time period of a goal or measure value.	



Note: Reference Shared Common Library Business Message (BMS) Release 3.6 and eCom Domain Common Library Business Message (BMS) Release 3.6 for all common information.



4.4 Enumerations (message specific)

Not applicable

4.5 Code Lists

Class	Codelist	GDD Link
PerformanceMeasure	PerformanceMeasureTyp eCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs 1:gdd:cl:PerformanceMeasureTypeCode
DeliveryParameter	AppointmentTimeMeasur ementBasisTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs 1:gdd:cl:AppointmentTimeMeasurementBasisTypeCode
DeliveryParameter	DeliveryTimeMeasureme ntBasisTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs 1:gdd:cl:DeliveryTimeMeasurementBasisTypeCode
ForecastParameter	ForecastPurposeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs 1:gdd:cl:ForecastPurposeCode
ForecastParameter	ForecastTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs 1:gdd:cl:ForecastTypeCode
InventoryParameter	DemandEstimationTypeC ode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs 1:gdd:cl:DemandEstimationTypeCode
InventoryParameter	InventoryMeasurementB asisTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs 1:gdd:cl:InventoryMeasurementBasisTypeCode
ItemScopeParamete r	ItemScopeTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs 1:gdd:cl:ItemScopeTypeCode
LocationScopeParam eter	LocationScopeParameter TypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs 1:gdd:cl:LocationScopeParameterTypeCode
LocationScopeParam eter	LocationScopeTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs 1:gdd:cl:LocationScopeTypeCode
MasterDataSynchron isationParameter	SynchronisationCalculatio nTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs 1:gdd:cl:SynchronisationCalculationTypeCode
OutOfStockParamete r	OutOfStockMeasurement TypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs 1:gdd:cl:OutOfStockMeasurementTypeCode
PeriodicityParameter	PeriodicityTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs 1:gdd:cl:PeriodicityTypeCode
SalesParameter	SalesMeasurementTypeC ode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs 1:gdd:cl:SalesMeasurementTypeCode
SalesParameter	CurrencyCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs 1:gdd:cl:CurrencyCode
ServiceLevelParamet er	ServiceLevelBasisTypeCo de	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs 1:gdd:cl:ServiceLevelBasisTypeCode
ServiceLevelParamet er	ServiceLevelMeasuremen tBasisTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs 1:gdd:cl:ServiceLevelMeasurementBasisTypeCode
TimePeriodParamete r	TimePeriodScopeTypeCo de	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs 1:gdd:cl:TimePeriodScopeTypeCode



Note: Refer to the Global Data Dictionary (GDD) for the code values.



5 Business Message Examples

5.1 Example **1**

Test Data 1

Performanc e Measure Type	Sales Growt h (%)	Share (%)	Retail Item Gross Margin (%)	Retail Gross Profit Margin (%)	Invoice Accuracy (%)	Item Master Data Accuracy (%)	Item Data Synchronis ation (%)
Example Description	Sales by unit volume of the 500gr size box of SmartB ite Low-Fat Snack Cracke rs (GTIN 010672 021971 35) grew by 13% in the week ending 23 March 2009 at Value Mart store #32 (GLN 098823 498831 3) as compar ed with the same period last year.	The goal for LaundryCorp's share of Value Mart's Fabric Softener subclass for Fiscal Q3 of 2009 (ending in July) in its French stores is 43% in monetary sales terms.	Value Mart's gross margin for items in the carbonated soft drink category in January 2009 was 26.7%, compared to the goal of 25%.	Value Mart's Gross Profit Margin for GPC category Drinks (verify) was 31% in 2008.	The accuracy of LaundryCor p's invoices to Value Mart in July 2009 were 86%.	The accuracy of master data elements synchronize d with ValueMart across all grocery department items and suppliers was 92% in December 2008.	The percentage of LaundryCorp's items that were synchronized to Value Mart in the week ending 14-Mar-2009 was 91%, vs. a goal of 99%.
Item Selection Scope Value	010672 021971 35	<not Specified></not 	06-20	Drinks		04	<not Specified></not
Item Selection Scope Type	GTIN	TRADING_R ELATIONSHI P	CLASS	GPC		DEPARTME NT	TRADING_R ELATIONSHI P
Item Context Scope Value		07-33-77					
Item Context Scope Type		SUBCLASS					TRADING_R ELATIONSHI P



i -	T				Υ		Standard (DMS)
Performanc e Measure Type	Sales Growt h (%)	Share (%)	Retail Item Gross Margin (%)	Retail Gross Profit Margin (%)	Invoice Accuracy (%)	Item Master Data Accuracy (%)	Item Data Synchronis ation (%)
Location Selection Scope Value	098823 498831 3 (Store #32's GLN)	FR	"Value Mart Stores"	"Value Mart Stores"	0988234980 003 (Value Mart's GLN)	0988234980 003 (Value Mart's GLN)	70034431000 03 (LaundryCorp' s GLN)
Location Selection Scope Type	GLN	COUNTRY	CHAIN	CHAIN	Supplier	GLN	Supplier
Location Scope Parameter Type	LOCAT ION_S ELECT ION	LOCATION_ SELECTION	LOCATION_ SELECTION	LOCATION_ SELECTION	LOCATION_ SELECTION	LOCATION_ SELECTION	LOCATION_ CONTEXT
Time Period Value Start	17- Mar- 2009	01-May-09	1-Jan-2009	01-Jan-08	1-Jul-2009	01-Dec-08	08-Mar-09
Time Period Value End	23- Mar- 2009	31-Jul-09	31-Jan-2009	31-Dec-08	31-Jul-2009	31-Dec-08	14-Mar-09
Time Period Scope Type	WEEK	FISCAL_QUA RTER	CALENDAR _MONTH	CALENDAR _YEAR	CALENDAR _MONTH	CALENDAR _MONTH	WEEK
Periodicity Type							
Sales Measureme nt Type	VOLU ME_BA SIS	MONETARY_ BASIS					
Sales Volume Unit of Measure Value	EA						
Sales Monetary Basis Currency Code		EUR					
Inventory Measureme nt Basis Type							
Demand Estimation Type							
Synchronisa tion Calculation Type							TOTAL_ITEM S
Delivery Time Measureme nt BasisType							



Performanc e Measure Type	Sales Growt h (%)	Share (%)	Retail Item Gross Margin (%)	Retail Gross Profit Margin (%)	Invoice Accuracy (%)	Item Master Data Accuracy (%)	Item Data Synchronis ation (%)
Appointmen t Time Measureme nt Basis Type							
OOS Measureme nt Method Type							
Forecast Type Code							
Forecast Purpose Code							
Forecast Lag							
Service Level Measureme nt Basis Type							
Service Level Basis Type							
Performanc e Goal	<not Specifi ed></not 	43 %	25 %	<not Specified></not 	<not Specified></not 	<not Specified></not 	99 %
Performanc e Result	13 %	<not Specified></not 	26.7 %	31 %	86 %	92 %	91 %

Test Data 2

Performance Measure Type	Order Item/ QuantityCh ange (%)	Service Level / Fill Rate (%)	Order to Delivery Cycle Time (Hours)	On-time Delivery (%)	Finished Goods Inventory Cover (Days)
Example Description	The percentage of Value Mart orders that LaundryCorp had to be change before shipment month-to-date was 20%, vs a goal of 10%.	The supplier's service level to the retail DC identified by GLN 0377076379213 was 98.3% in the week ending 07 March, compared to the goal of 97%.	The average order-to-delivery cycle time for direct-to-store shipments from LaundryCorp's Detergent Plant to Value Mart was 96 hours in February 2009.	The goal for on-time delivery performance of LaundryCorp's shipments to Value Mart's Northeastern DC is 95% for Fiscal Year 2009, based upon the first appointment time and a 2 hour delivery window.	For the week ending 14-Mar-2009, Value Mart had 12 days of forecasted inventory cover of the 500gr size box of SmartBite Low-Fat Snack Crackers (GTIN 0037998274532 5) at its Northeastern DC.



			,	Terrient business Messa	
Performance Measure Type	Order Item/ QuantityCh ange (%)	Service Level / Fill Rate (%)	Order to Delivery Cycle Time (Hours)	On-time Delivery (%)	Finished Goods Inventory Cover (Days)
Item Selection Scope Value		<not specified=""></not>	<not specified=""></not>		0037998274532 5
Item Selection Scope Type Item Context Scope Value		TRADING_RELATION SHIP	TRADING_REL ATIONSHIP		GTIN
Item Context Scope Type					
Location Selection Scope Value	1. "Value Mart Stores" 2. "Laundry Corp"	1. 0377076379213 2. 0377076379223 (Vendor Location GLN) 3. 0377076379223 (Customer Destination GLN) 4. 0377076379233 (Shipping Location GLN)	1. <not Specified> 2. 7003443100323 (LaundryCorp Detergent Plant's GLN)</not 	1. 0988234982093 (Value Mart Northeastern DC's GLN) 2. 7003443100003 (LaundryCorp's GLN)	0988234982093 (Value Mart Northeastern DC's GLN)
Location Selection Scope Type	1. CHAIN 2. SUPPLIER	1. GLN 2. GLN 3. GLN 4. GLN	1. STORE 2. GLN	1. GLN 2. GLN	GLN
Location Scope Parameter Type	1. LOCATION_S ELECTION 2. LOCATION_C ONTEXT	1. LOCATION_SELECTION 2. VENDOR_LOCATION 3.CUSTOMER_DESTINA TION_LOCATION 4. SHIPPING_LOCATION	1. LOCATION_SELE CTION 2. LOCATION_CON TEXT	1. LOCATION_SELECTI ON 2. LOCATION_CONTEX T	LOCATION_SE LECTION
Time Period Value Start	01-Apr-09	01-Mar-09	01-Feb-09	01-Aug-08	08-Mar-09
Time Period Value End	06-Apr-09	07-Mar-09	28-Feb-09	31-Jul-09	14-Mar-09
Time Period Scope Type	MONTH_TO_ DATE	WEEK	CALENDAR_M ONTH	FISCAL_YEAR	WEEK
Periodicity Type			HOUR		
Sales Measurement Type					
Sales Volume Unit of Measure Value					
Sales Monetary Basis Currency Code					
Inventory Measurement Basis Type					ON_HAND_ON LY



Measure Type Demand Estimation Type Synchronisat ion Calculation Type Delivery Time Measurement BasisType Appointment Time Measurement Basis Type OOS Measurement		Delivery Cycle Time (Hours)	FIRST_APPOINTM ENT_DATE_TIME APPOINTMENT_WI NDOW	Goods Inventory Cover (Days) FORECAST_BA SIS
Demand Estimation Type Synchronisat ion Calculation Type Delivery Time Measurement BasisType Appointment Time Measurement Basis Type OOS	/o)		FIRST_APPOINTM ENT_DATE_TIME APPOINTMENT_WI	Cover (Days) FORECAST_BA
Estimation Type Synchronisat ion Calculation Type Delivery Time Measurement BasisType Appointment Time Measurement Basis Type OOS			ENT_DATE_TIME APPOINTMENT_WI	FORECAST_BA
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ion Calculation Type Delivery Time Measurement BasisType Appointment Time Measurement Basis Type OOS			ENT_DATE_TIME APPOINTMENT_WI	
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BasisType Appointment Time Measurement Basis Type OOS			APPOINTMENT_WI	
Appointment Time Measurement Basis Type OOS				
Time Measurement Basis Type OOS				
Measurement Basis Type OOS			NDOW	
Basis Type OOS		•		
oos				
Method Type				
Forecast				
Type Code				
Forecast				
Purpose Code				
Forecast Lag				
7 07 00 ust 2 ug				
Service Level	RECEIVED_QL	JANTIT		
Measurement	Y			
Basis Type				
Service Level	VOLUME			
Basis Type				
Performance 10 °	% 97 %	<not specifie<="" td=""><td>ed> 95 %</td><td><not specified=""></not></td></not>	ed> 95 %	<not specified=""></not>
Goal				
Performance 20 °	% 98.3 %	96 Hours	<not specified=""></not>	12 Days
Result		333.134.13		,-

Test Data 3



					essage Standard (BMS)
Performanc	Forecast	Out-of-stock (%)	Unsaleables (%)	On Time	Markdown (%)
e Measure	Accuracy (%)			Payment (%)	
Type					
Example Description	The four-week lagged unit POS forecast accuracy for the 500gr size box of SmartBite Low-Fat Snack Crackers (GTIN 003799827453 25) across all stores was 78% in the week ending 14-Mar-2009.	The estimated average out-of-stock rate for grocery items at Value Mart Store #32 in Fiscal Month 12 (based on sales data analysis) was 8%.	The percentage of unsaleable items that Value Mart has received year-to-date from LaundryCorp is 0.9%, vs a goal of 1.0%.	The percentage of LaundryCorp invoices that Value Mart paid on time in the first calendar quarter of 2009 was 100%.	The Markdown percentage of LaundryCorp's items at Value Mart in the week ending 14-Mar-2009 was 2%.
Item Selection Scope Value	003799827453 25	04	<not specified=""></not>		<not specified=""></not>
Item Selection Scope Type	GTIN	DEPARTMENT	TRADING_RELATI ONSHIP		TRADING_RELATI ONSHIP
Item Context Scope Value					
Item Context Scope Type					
Location Selection Scope Value	098823498000 3 (Value Mart's GLN)	0988234988313 (Store #32's GLN)	0988234980003 (Value Mart's GLN)	1. 0988234980003 (Value Mart's GLN) 2.700344310000 (LaundryCorp's GLN)	<not specified=""></not>
Location Selection Scope Type	GLN	GLN	GLN	1. GLN 2. GLN	Supplier
Location Scope Parameter Type	LOCATION_SE LECTION	LOCATION_SELEC TION	LOCATION_SELE CTION	1. LOCATION_SELE CTION 2. LOCATION_CONT EXT	LOCATION_SELE CTION
Time Period Value Start	08-Mar-09	27-Jun-09	01-Jan-09	01-Jan-09	08-Mar-09
Time Period Value End	14-Mar-09	31-Jul-09	06-Apr-09	31-Mar-09	14-Mar-09
Time Period Scope Type	WEEK	FISCAL_MONTH	YEAR_TO_DATE	CALENDAR_QU ARTER	WEEK
Periodicity Type					
Sales Measureme nt Type	VOLUME_BASI S				
Sales Volume Unit of Measure Value	EA				



Payment (%) Payment (%) Payment (%)	Performanc	Forecast	Out-of-stock (%)	Unsaleables (%)	On Time	Markdown (%)
Type			Cat 01 0100K (70)	- 110a10ab103 (70)		
Sales Monetary Basis Currency Code Inventory Measureme nt Basis Type Demand Estimation Type Synchronisa tion Calculation Type Delivery Time Measureme nt Basis Type Appointmen t Time Measureme nt Basis Type OOS SALES_DATA_ANA LYSIS LYSIS SALES_DATA_ANA LYSIS TOTAL Type Code Forecast TOTAL Type Code Forecast Type Code Forecast CAST Code Weasureme nt Basis Type Code Forecast Type Code Forecast Type Code Forecast Type Code Forecast Type Code CAST Code CAST Code CAST Code Forecast Leyel Measureme nt Basis Type Code Forecast Lag Service Level Measureme nt Basis Type Performanc Code Code Code Code Code Code Code Cod		(70)			,	
Monetary Basis Currency Code						
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Type Code	Туре					
SALES_FORE	Forecast	TOTAL				
Purpose Code CAST Forecast Lag 4 Service Level Measureme nt Basis Type Service Level Basis Type Service Level Basis Type Not Specified> Performanc e Goal < Not Specified> < Not Specified> Performanc 78 % 8 % 0.9 % 100 % 2 %	Type Code					
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TypePerformanc e Goal <not specified="">1 %<not specified=""><not specified="">Performanc78 %8 %0.9 %100 %2 %</not></not></not>						
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o Pocult		78 %	8 %	0.9 %	100 %	2 %
e resuit	e Result					



Message Example

This example is based on parts of the three sets of test data provided in paragraphs 6.1 - 6.3.

Attribute	Value
PerformanceMeasurement	
purchaseConditionsCurrencyCode	EUR
Document	
creationDateTime	2010-01-09T11:00:00
documentStatus	ORIGINAL
EntityIdentification (+performanceMeasurementIdentification)	
entityIdentification	2011001
PartyIdentification (+contentOwner)	
gln	8712345678913
PartyIdentification (+seller)	
gln	8812345678903
PartyIdentification (+buyer)	
gln	8712345678913
PerformanceMeasure	
performanceMeasureTypeCode	SALES_GROWTH
performanceMeasureGoal	
performanceMeasureResult	13 (measurementUnitCode = P1)
ItemScopeParameter (+itemContext)	
itemScopeTypeCode	
itemScopeValue	
ItemScopeParameter (+itemSelection)	
itemScopeTypeCode	GTIN
itemScopeValue	0106720219715
LocationScopeParameter	
locationScopeParameterTypeCode	LOCATION_SELECTION
locationScopeTypeCode	GLN
PartyIdentification	
gln	0988234988137
TimePeriodParameter	
timePeriodScopeTypeCode	WEEK
DateTimeRange	
beginDate	2009-03-17
endDate	2009-03-23
SalesParameter	
salesMeasurementTypeCode	VOLUME_BASIS
salesMonetaryBasisCurrencyCode	
salesVolumeMeasurementUnitCode	EA
PerformanceMeasure	



Attribute	Value
performanceMeasureTypeCode	SHARE
performanceMeasureGoal	43 (measurementUnitCode = P1)
performanceMeasureResult	,
ItemScopeParameter (+itemContext)	
itemScopeTypeCode	SUBCLASS
itemScopeValue	07-33-77
ItemScopeParameter (+itemSelection)	
itemScopeTypeCode	TRADING_RELATIONSHIP
itemScopeValue	
LocationScopeParameter	
locationScopeParameterTypeCode	LOCATION_SELECTION
locationScopeTypeCode	COUNTRY
PartyIdentification	
gln	000000000000
additionalPartyIdentification	ValueMart France (BUYER_ASSIGNED_IDENTIFIER_FOR_A_PARTY)
TimePeriodParameter	
timePeriodScopeTypeCode	FISCAL_QUARTER
DateTimeRange	
beginDate	2009-05-01
endDate	2009-07-31
SalesParameter	
salesMeasurementTypeCode	MONETARY_BASIS
salesMonetaryBasisCurrencyCode	EUR
salesVolumeMeasurementUnitCode	
PerformanceMeasure	
performanceMeasureTypeCode	RETAIL_ITEM_GROSS_MARGIN
performanceMeasureGoal	25 (measurementUnitCode = P1)
performanceMeasureResult	26.7 (measurementUnitCode = P1)
ItemScopeParameter (+itemContext)	
itemScopeTypeCode	
itemScopeValue	
ItemScopeParameter (+itemSelection)	
itemScopeTypeCode	CLASS
itemScopeValue	06-20
LocationScopeParameter	
locationScopeParameterTypeCode	LOCATION_SELECTION
locationScopeTypeCode	CHAIN
PartyIdentification	
gln	00000000000



	L
Attribute	Value
additionalPartyIdentification	Value Mart Stores (BUYER_ASSIGNED_IDENTIFIER_FOR_A_PARTY)
TimePeriodParameter	
timePeriodScopeTypeCode	CALENDER_MONTH
DateTimeRange	
beginDate	2009-01-01
endDate	2009-01-31
PerformanceMeasure	
performanceMeasureTypeCode	ITEM_DATA_SYNCHRONISATION
performanceMeasureGoal	99 (measurementUnitCode = P1)
performanceMeasureResult	91 (measurementUnitCode = P1)
ItemScopeParameter (+itemContext)	
itemScopeTypeCode	TRADING_RELATIONSHIP
itemScopeValue	
ItemScopeParameter (+itemSelection)	
itemScopeTypeCode	TRADING_RELATIONSHIP
itemScopeValue	
LocationScopeParameter	
locationScopeParameterTypeCode	LOCATION_CONTEXT
locationScopeTypeCode	SUPPLIER
PartyIdentification	
gln	7003443100003
TimePeriodParameter	
timePeriodScopeTypeCode	WEEK
DateTimeRange	
beginDate	2009-03-08
endDate	2009-03-14
MasterDataSynchronisationParameter	
synchronisationCalculationTypeCode	TOTAL_ITEMS
PerformanceMeasure	
performanceMeasureTypeCode	FILL_RATE
performanceMeasureGoal	97 (measurementUnitCode = P1)
performanceMeasureResult	98.3 (measurementUnitCode = P1)
ItemScopeParameter (+itemContext)	
itemScopeTypeCode	
itemScopeValue	
ItemScopeParameter (+itemSelection)	
itemScopeTypeCode	TRADING_RELATIONSHIP
itemScopeValue	
LocationScopeParameter	
locationScopeParameterTypeCode	LOCATION_SELECTION



Attribute	Value
locationScopeTypeCode	GLN
PartyIdentification	
gln	0377076379213
LocationScopeParameter	
locationScopeParameterTypeCode	VENDOR_LOCATION
locationScopeTypeCode	GLN
PartyIdentification	
gln	0377076379225
LocationScopeParameter	
locationScopeParameterTypeCode	CUSTOMER_DESTINATION_LOCATION
locationScopeTypeCode	GLN
PartyIdentification	
gln	0377076379225
LocationScopeParameter	
locationScopeParameterTypeCode	SHIPPING_LOCATION
locationScopeTypeCode	GLN
PartyIdentification	
gln	0377076379232
TimePeriodParameter	
timePeriodScopeTypeCode	WEEK
DateTimeRange	
beginDate	2009-03-01
endDate	2009-03-07
ServiceLevelParameter	
serviceLevelBasisTypeCode	VOLUME
serviceLevelMeasurementBasisTypeCode	RECEIVED_QUANTITY

6 Implementation Considerations

6.1 User Guide

The Functional User Guide contains more information about the structure and content of the Performance Measurement message: http://www.gs1.org/docs/ecom/xml/3/3.4/eCom-trade messages.html#PerformanceMeasurement

6.2 Message Specific Considerations

6.2.1 Information Systems Deployment

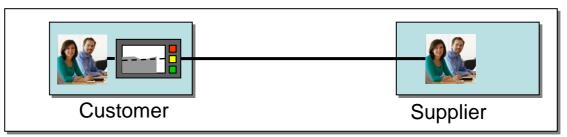
There are multiple deployment options for trading partner performance management. Before starting an initiative, a buyer and seller need to select that approach that efficiently meets their mutual business requirements, enhances their ability to collaborate, leverages their existing



technology capabilities while remaining agile enough to meet evolving demands, and allows all this to happen in a secure environment.

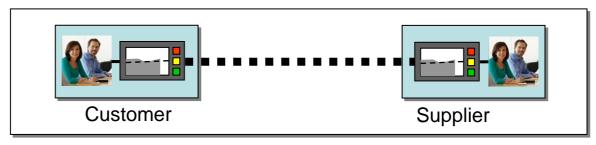
6.2.1.1 Supplier Extranet

A retailer can set up a supplier extranet, and allow manufacturer users to log in, review information and perform tasks on the retailer's site. The extranet model has the advantage of offering access to manufacturers of any size - they do not need any in-house IT or planning applications to participate. However, a manufacturer has to work with each retailer that has an extranet separately, and often must cope with widely varying capabilities, navigation paradigms and user expectations. Manufacturers that depend on retailers' extranets cannot easily aggregate data across all of their customers to understand demand patterns and anomalies. Special attention to security is called for to address access to the extranet, encryption of data in transit and restricted access within the extranet application such that supplier information is not accessible by competitors.



6.2.1.2 Message Interchange

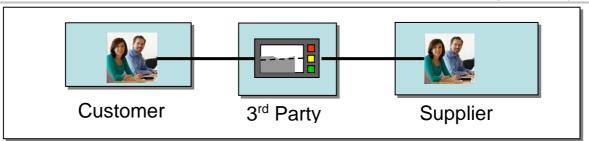
Some companies exchange data through business-to-business transactions sets, using EDI, XML or flat file formats. The company-to-company model offers the advantage of standards based messages, and uses each company's own enterprise applications to analyze and act on the data. Companies can also combine this data across trading partners to get market-level insights. However, this approach also demands that a company invest in a B2B communications infrastructure, and have applications that can deal with large volumes of consumer demand data. The company-to-company approach also must overcome batch data synchronization delays, and subtle differences in each company's user views. With the public Internet as the transport mechanism for B2B messages, it is important that the data be transported in a manner that is both secure and provides confirmation of delivery. The AS2 specification is a widely adopted solution.



6.2.1.3 Hosted/On-Demand

The hosted/on-demand model collects data from multiple retailers and makes it available to multiple manufacturers through a public exchange or private service. The hosted model combines the benefits of ease of access of the extranet model with the data aggregation and single point of access of the company-to-company model. However, the hosted model raises issues of data ownership and payment, security and competitive positioning. Some retailers also do not allow their data to be hosted by a third party, limiting the potential for the hosted model to become universal.





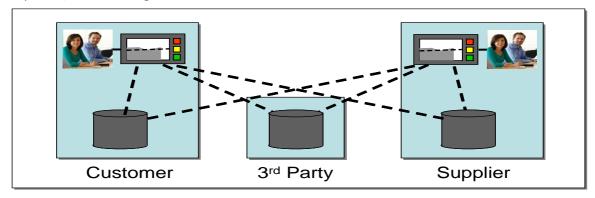
6.2.1.4 Distributed

An emerging alternative is to leave the measure data at its source (whether manufacturer, retailer or distributor) rather than forwarding it to a partner or a shared service. Users access the data in place when they review their scorecard or other performance management application. Technology is responsible for requesting the values from their distributed sources, and assembling any views that combine them.

The advantage of the distributed approach is that the data can remain wherever it was originally produced. If a combination of customer, supplier and third-party sources own this data, the services fetch the only the results requested, rather than transferring the large volumes of transaction data needed to calculate the measures. The distributed approach also always presents the user with the latest results, based on the original source for the data.

To be effective, distributed measures would most likely utilize Service Oriented Architecture (SOA) technology that can hide the complexity of sending off multiple requests to diverse data sources from the user consuming the information.

The potential disadvantages of the distributed approach are 1) the potential delay in assembling the results in near real time from disparate sources spread across a wide-area network, and 2) the likelihood that users will want to review the underlying data that caused specific results to be reported, necessitating ad hoc transfers of voluminous transaction data.



6.2.1.5 Hybrid

Realistically, most companies will have to accommodate multiple models. For example, a retailer may operate an extranet for smaller suppliers, while sending B2B transaction data to larger ones. Manufacturers may need to access extranets for retailers who do not offer message interchange as an option. In this complex environment, the use of standards is vital.

6.2.2 Measure and Data Transmission

When companies begin to exchange results data, they have two options:

- Calculate the results based upon the underlying data, and share those.
- Share the underlying data, and allow each party to calculate the results.

Each option has advantages and disadvantages. Sharing the underlying data gives trading partners the greatest flexibility in generating aggregate measures in any number of business contexts. They



also provide the best basis for investigating the conditions that caused inadequate or exceptional performance. However, this data sharing approach places a demand on each participating organization to be able to store the data, run the calculations on a consistent basis, and maintain the master data that determines which items belong in which calculations on a synchronized basis with their trading partner. Use of the GS1 Global Data Synchronization Network (GDSN) is practically essential in this scenario, but even it only covers item master data. Location and time (calendar) master data must also be synchronized.

Sharing the measure results themselves assures that all trading partners are looking at the same values at any given time, and lowers the minimum IT requirements for participation in a performance management initiative. However, sharing the results alone can make it difficult to interpret the values reported, or investigate how to address issues as they occur.

The best option is to share both the measure results and the underlying data used to calculate them. This approach allows trading partners to check whether their own local calculations still line up with those their customer or supplier has made – meaning their master data and methods are aligned.



7 Summary of Changes

Any change in the GS1 standards is done based on the Work Request (WR) submitted by the GS1 User Companies or Member Organisations. All Work Requests are documented in the Work Request system available on the GS1 website: http://wr.gs1.org. The system is accessible to registered users. New visitors need to register first, to be able to access it. WRs can be searched by the number referenced in tables below, see: Search Work Requests. The number starts with the two last digits of the year when it was submitted, followed by the consecutive number within that year.



Note: WRs submitted earlier than February 2012 should be searched in Old Change Requests.

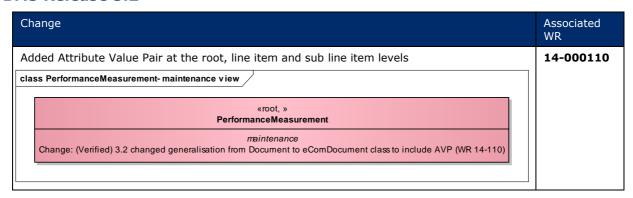
7.1 BMS Release 3.0

Change	BSD Version	Associated CR Number
Updated the BMS to be compliant with MR3.0, and added Performance Measurement Identification and Appointment Window to meet the requirements of the CRQ	1.0.0	10-201 10-258
For Publication Added Copyright R in GS1 Logo Changed Status to Approved Removed year reference in footer copyright statement Replaced Section 10 with updated AG Principles	1.0.0	Not Applicable

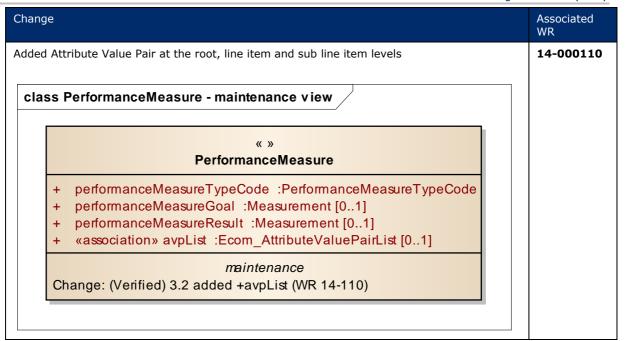
7.2 BMS Release **3.1**

No work requests. Indirect changes due to upgrade to new Shared and eCom Common libraries.

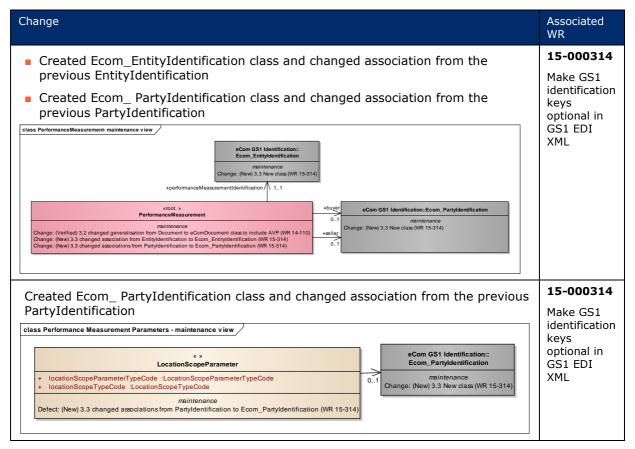
7.3 BMS Release 3.2







7.4 BMS Release 3.3



7.5 BMS Release 3.4

No work requests. Indirect changes due to upgrade to new Shared and eCom Common libraries.



7.6 BMS Release **3.5**

No work requests. Indirect changes due to upgrade to new Shared and eCom Common libraries.

7.7 BMS Release 3.5.1

No work requests. Indirect changes due to upgrade to new Shared and eCom Common libraries.

7.8 BMS Release 3.6

No work requests. Indirect changes due to upgrade to new Shared and eCom Common libraries.

8 Appendices

Not Applicable

9 Acknowledgements

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Co-chair	Schmidt, Tom Eric	August Storck KG
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Member	Chresta, Richard	GS1 Switzerland
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Member	Cox, Marc	Philips Electronics N.V.
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Member	Yusdiar, Dani	GS1 Indonesia	
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9.2 Development Team Members

Function	Name	Organisation
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