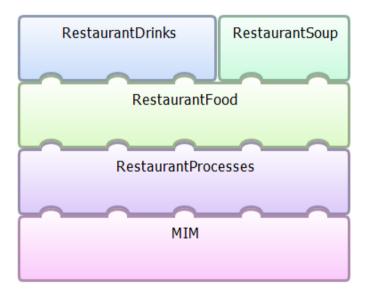
Project Modular Restaurant



1. Module MIM



Information

Name:	Standard MOM and Initialization Module (MIM) for HLA IEEE 1516-2010
Type:	FOM
Version:	1.0
Modification Date:	2008-12-11
Security Classification:	Unclassified
Purpose:	Standard MOM and Initialization Module for HLA IEEE 1516-2010
Application Domain:	HLA General
Description:	The MOM Object Classes and Interaction Classes of this object model may be extended.
Use Limitation:	-
Other:	-

Standards Sponsor Point Of Contact

Name:	Simulation Interoperability Standards Organization
Organization:	SISO
Telephone:	+1 (407) 882-1348
Email:	info@sisostds.org

Note that the standard MOM classes and data types are currently hidden in this project.

1.1. Datatypes

1.1.1. Basic Datatypes

HLAinteger16BE

Size in bits: 16

Interpretation: Integer in the range [-2^15, 2^15 - 1]

Endian: Big

Encoding: 16-bit two's complement signed integer. The most significant bit contains the sign.

HLAinteger32BE

Size in bits: 32

Interpretation: Integer in the range [-2^31, 2^31 - 1]

Endian: Big

Encoding: 32-bit two's complement signed integer. The most significant bit contains the sign.

HLAinteger64BE

Size in bits: 64

Interpretation: Integer in the range [-2^63, 2^63 - 1]

Endian: Big

Encoding: 64-bit two's complement signed integer first. The most significant bit contains the sign.

HLAfloat32BE

Size in bits: 32

Interpretation: Single-precision floating point number

Endian: Big

Encoding: 32-bit IEEE normalized single-precision format. See IEEE Std 754-1985

HLAfloat64BE

Size in bits: 64

Interpretation: Double-precision floating point number

Endian: Big

Encoding: 64-bit IEEE normalized double-precision format. See IEEE Std 754-1985

HLAoctetPairBE

Size in bits: 16

Interpretation: 16-bit value

Endian: Big

Encoding: Assumed to be portable among devices.

HLAinteger16LE

Size in bits: 16

Interpretation: Integer in the range [-2^15, 2^15 - 1]

Endian: Little

Encoding: 16-bit two's complement signed integer. The most significant bit contains the sign.

HLAinteger32LE

Size in bits: 32

Interpretation: Integer in the range [-2^31, 2^31 - 1]

Endian: Little

Encoding: 32-bit two's complement signed integer. The most significant bit contains the sign.

HLAinteger64LE

Size in bits: 64

Interpretation: Integer in the range [-2^63, 2^63 - 1]

Endian: Little

Encoding: 64-bit two's complement signed integer first. The most significant bit contains the sign.

HLAfloat32LE

Size in bits: 32

Interpretation: Single-precision floating point number

Endian: Little

Encoding: 32-bit IEEE normalized single-precision format. See IEEE Std 754-1985

HLAfloat64LE

Size in bits: 64

Interpretation: Double-precision floating point number

Endian: Little

Encoding: 64-bit IEEE normalized double-precision format. See IEEE Std 754-1985

HLAoctetPairLE

Size in bits: 16

Interpretation: 16-bit value

Endian: Little

Encoding: Assumed to be portable among hardware devices.

HLAoctet

Size in bits: 8

Interpretation: 8-bit value

Endian: Big

Encoding: Assumed to be portable among hardware devices.

1.1.2. Simple Datatypes

HLAASCIIchar

Representation: HLAoctet

Units: NA
Resolution: NA
Accuracy: NA

Semantics: Standard ASCII character (see ANSI Std x3.4-1986)

HLAunicodeChar

Representation: <u>HLAoctetPairBE</u>

Units: NA
Resolution: NA
Accuracy: NA

Semantics: Unicode UTF-16 character (see The Unicode Standard, Version 3.0)

HLAbyte

Representation: HLAoctet

Units: NA
Resolution: NA
Accuracy: NA

Semantics: Uninterpreted 8-bit byte

HLAinteger64Time

Representation: <u>HLAinteger64BE</u>

Units: NA
Resolution: 1
Accuracy: NA

Semantics: Standardized 64 bit integer time

HLAfloat64Time

Representation: HLAfloat64BE

Units: NA

Resolution: 4.9E-308

Accuracy: NA

Semantics: Standardized 64 bit float time

1.1.3. Enumerated Datatypes

HLAboolean

Representation: HLAinteger32BE

Semantics: Standard boolean type

Enumerators:

Enumerator	Value
HLAfalse	0
HLAtrue	1

1.1.4. Array Datatypes

HLAASCIIstring

Element Type: <u>HLAASCIIchar</u>

Cardinality: Dynamic

Encoding: HLAvariableArray

Semantics: ASCII string representation

HLAunicodeString

Element Type: <u>HLAunicodeChar</u>

Cardinality: Dynamic

Encoding: HLAvariableArray

Semantics: Unicode string representation

HLAopaqueData

Element Type: <u>HLAbyte</u> Cardinality: Dynamic

Encoding: HLAvariableArray

Semantics: Uninterpreted sequence of bytes

HLAtoken

Element Type: <u>HLAbyte</u>

Cardinality: 0

Encoding: HLAfixedArray

Semantics:

1.2. Transportation Types

HLAreliable

Reliability: Reliable

Semantics: Provide reliable delivery of data in the sense that TCP/IP delivers its data reliably

HLAbestEffort

Reliability: Best effort

Semantics: Make an effort to deliver data in the sense that UDP provides best-effort delivery

2. Module RestaurantProcesses



Information

Name:	Serving processes for Restaurant FOM
Type:	FOM
Version:	3.0
Modification Date:	2010-09-09
Security Classification:	Unclassified
Purpose:	To define a processes module for a restaurant federation
Application Domain:	Restaurant operations
Description:	Processes for the modular restaurant.
Use Limitation:	Derived models must reference this document
Other:	See Mobil International Restaurant Guide for more information

Keywords

Keyword	Taxonomy
Restaurant	Food Service Industry Taxonomy
Menu	Food Service Industry Taxonomy
Waiter	Food Service Industry Taxonomy

Sponsor Point Of Contact

Name:	Mr. Joseph Doe
Organization:	Joe's Place
Telephone:	1-977-555-1234
Email:	doej@fedfoods.com

Author Point Of Contact

Name:	Mr. Sven Swede
Organization:	Federated Foods
Telephone:	
Email:	

References

HTML document	www.fedfoods.com/restsim.html
Federation Agreements	www.fedfoods.com/restsimAgreement.pdf

Release Restrictions

Other organizations not related to Federated Foods

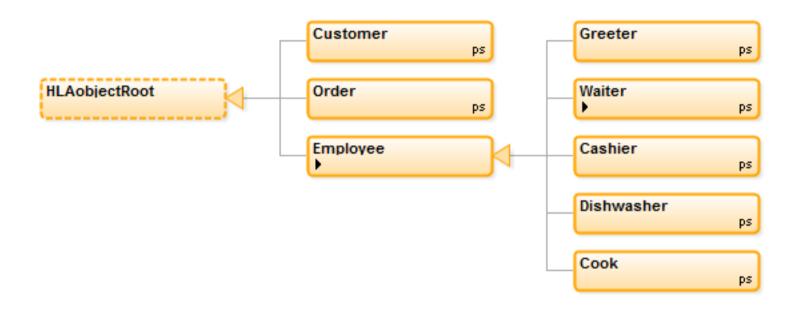
Use History

Originally used as an example in the DoD HLA 1.3 specification

Used as an example in the HLA IEEE1516.2-2000 specification

Used as an example in the HLA IEEE1516.2-2010 specification after conversion to a FOM module (MIM information stripped out)

2.1. Object Classes



2.1.1. **HLAobjectRoot**

Full Name: HLAobjectRoot

Sharing: Semantics: Attributes:

HLAprivilegeToDeleteObject	Datatype	Sharing	Ownership	Order	Transportation	Dimensions	
	HLAtoken	PS		TS	<u>HLAreliable</u>		
	Update type	Update Condition					
	Static	NA NA					
	Semantics						

2.1.2. **Customer**

Note1

Full Name: HLAobjectRoot.Customer

Sharing: Publish/Subscribe

Semantics: Statement of money owed by the customer

Attributes:

HLAprivilegeToDeleteObject Inherited from HLAobjectRoot in MIM	Datatype	Sharing	Ownership	Order	Transportation	Dimensions	
	<u>HLAtoken</u>	PS		TS	<u>HLAreliable</u>		
	Update type	Update Condition					
	Static	NA NA					
	Semantics						

2.1.3. **Order**

Full Name: HLAobjectRoot.Order

Sharing: Publish/Subscribe

Semantics: Specific items requested by a customer

Attributes:

HLAprivilegeToDeleteObject Inherited from HLAobjectRoot in MIM	Datatype	Sharing	Ownership	Order	Transportation	Dimensions	
	<u>HLAtoken</u>	PS		TS	<u>HLAreliable</u>		
	Update type	Update Condition					
	Static	NA NA					
	Semantics						

2.1.4. **Employee**

Full Name: HLAobjectRoot.Employee

Sharing:

Semantics: A person working for the restaurant

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions		
	<u>DollarRate</u>	PS		TS	<u>HLAreliable</u>			
	Update type	Update Cond	Update Condition					
PayRate	Conditional	Merit incre	ease					
	Semantics	Semantics						
	Amount the employee is paid per hour							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions		
	Years	PS		TS	<u>HLAreliable</u>			
	Update type	Update Condition						
YearsOfService	Periodic	1/year						
	Semantics	Semantics						
	Number of years the employee has wo	orked for the restaurant						

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	HLAASCIIstring	PS		TS	<u>HLAreliable</u>						
	Update type	Update Condition									
HomeNumber	Conditional	nal Employee request									
	Semantics										
	Employee home phone number										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	AddressType	PS		TS	<u>HLAreliable</u>						
	Update type Update Condition										
HomeAddress	Conditional Employee request										
	Semantics	Semantics									
	Employee home address										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	<u>HLAtoken</u>	PS		TS	<u>HLAreliable</u>						
HLAprivilegeToDeleteObject	Update type	Update Con	dition		•						
Inherited from HLAobjectRoot in MIM	Static	NA									
	Semantics	•									

2.1.5. **Greeter**

Full Name: HLAobjectRoot.Employee.Greeter

Sharing: Publish/Subscribe

Semantics: Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	DollarRate	PS		TS	HLAreliable				
PayRate	Update type	Update Con	dition	1					
Inherited from Employee in	Conditional	Merit incre	ease						
RestaurantProcesses	Semantics	1							
	Amount the employee is paid per hour	r							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	Years	PS		TS	<u>HLAreliable</u>				
YearsOfService	Update type Update Condition								
Inherited from Employee in	Periodic 1/year								
RestaurantProcesses	Semantics								
	Number of years the employee has we	orked for the	e restaurant	1					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	HLAASCIIstring	PS		TS	<u>HLAreliable</u>				
HomeNumber	Update type	Update Con	dition	•	•				
Inherited from Employee in	Conditional	Employee	request						
RestaurantProcesses	Semantics	•							
	Employee home phone number								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	AddressType	PS		TS	<u>HLAreliable</u>				
HomeAddress	Update type	Update Con	dition	•	•				
Inherited from Employee in	Conditional	Employee	request	· · ·					
RestaurantProcesses	Semantics								
	Employee home address								

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
HLAprivilegeToDeleteObject	HLAtoken	PS		TS	<u>HLAreliable</u>				
	Update type	Update Condition							
I	Static	NA NA							
	Semantics								

2.1.6. Waiter

Full Name: HLAobjectRoot.Employee.Waiter

Sharing: Publish/Subscribe

Semantics: Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Efficiency	WaiterValue	PS		TS	<u>HLAreliable</u>					
	Update type	Update Condition								
	Conditional	Performance review								
	Semantics									
	Efficiency rating of waiter									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	WaiterValue	PS		TS	<u>HLAreliable</u>					
	Update type	Update Cond	lition							
Cheerfulness	Conditional	Performan	ce review							
	Semantics									
	Cheerfulness of waiter									

Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
WaiterTasks	PS		TS	<u>HLAreliable</u>					
Update type	Update Cond	lition		-1					
Conditional Work flow									
Semantics	•								
What the waiter is doing									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
<u>DollarRate</u>	PS		TS	<u>HLAreliable</u>					
Update type Update Condition									
Conditional Merit increase									
Semantics									
Amount the employee is paid per hour	r								
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Years	PS		TS	<u>HLAreliable</u>					
Update type	Update Cond	lition							
Periodic	1/year								
Semantics	•								
Number of years the employee has wo	orked for the	e restaurant	1						
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
HLAASCIIstring	PS		TS	<u>HLAreliable</u>					
Update type	Update Cond	lition							
Conditional	Employee	request							
Semantics									
Employee home phone number									
	Update type Conditional Semantics What the waiter is doing Datatype DollarRate Update type Conditional Semantics Amount the employee is paid per hour Datatype Years Update type Periodic Semantics Number of years the employee has woon Datatype HLAASCIIstring Update type Conditional Semantics	WaiterTasks Update type Update Conc Conditional Work flow Semantics What the waiter is doing Datatype Sharing DollarRate PS Update type Update Conc Conditional Merit incre Semantics Amount the employee is paid per hour Datatype Sharing Years PS Update type Update Conc Periodic I/year Semantics Number of years the employee has worked for the Datatype HLAASCIIstring Update type Update Conc Conditional Employee Semantics	WaiterTasks Update type Update Condition Conditional Work flow Semantics What the waiter is doing Datatype DollarRate Update type Update Condition Conditional Merit increase Semantics Amount the employee is paid per hour Datatype Years PS Update type Update Condition Periodic I/year Semantics Number of years the employee has worked for the restaurant Datatype HLAASCIIstring PS Update type Update Condition Employee request Semantics	WaiterTasks PS TS Update type Update Condition Conditional Work flow Semantics What the waiter is doing Datatype Sharing Ownership Order DollarRate PS TS Update type Update Condition Conditional Merit increase Semantics Amount the employee is paid per hour Datatype Sharing Ownership Order Years PS TS Update type Update Condition Periodic 1/year Semantics Number of years the employee has worked for the restaurant Datatype Sharing Ownership Order HLAASCIIstring PS TS Update type Update Condition Conditional Employee request	WaiterTasks Update type Update Condition Conditional Work flow Semantics What the waiter is doing Datatype DollarRate PS Sharing Ownership Update Condition Conditional Merit increase Semantics Amount the employee is paid per hour Datatype Sharing Ownership Ownership Order Transportation HLAreliable Update type Update Condition Ownership Order Transportation HLAASCIIstring PS TS HLAreliable Update type Update Condition Update type Update Condition Employee request Semantics				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	AddressType	PS		TS	<u>HLAreliable</u>				
HomeAddress	Update type	Update Condition							
Inherited from Employee in	Conditional	Employee request							
RestaurantProcesses	Semantics	Semantics							
	Employee home address								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>HLAtoken</u>	PS		TS	<u>HLAreliable</u>				
HLAprivilegeToDeleteObject	Update type	Update Cond	lition						
Inherited from HLAobjectRoot in MIM	Static	NA							
	Semantics								

2.1.7. **Cashier**

Full Name: HLAobjectRoot.Employee.Cashier

Sharing: Publish/Subscribe

Semantics: *Employee who collects money*

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>DollarRate</u>	PS		TS	<u>HLAreliable</u>				
PayRate	Update type	Update Condition							
Inherited from Employee in									
RestaurantProcesses	Semantics								
	Amount the employee is paid per hour								

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions							
	Years	PS		TS	HLAreliable								
YearsOfService	Update type	Update Con	Update Condition										
Inherited from Employee in	Periodic	1/year											
RestaurantProcesses	Semantics												
	Number of years the employee has we	orked for the	e restaurant										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions							
	HLAASCIIstring	PS		TS	<u>HLAreliable</u>								
HomeNumber	Update type	date type Update Condition											
Inherited from Employee in	Conditional Employee request												
RestaurantProcesses	Semantics	Semantics											
	Employee home phone number												
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions							
	AddressType	PS		TS	<u>HLAreliable</u>								
HomeAddress	Update type	Update Con	dition										
Inherited from Employee in RestaurantProcesses	Conditional	Employee	request										
RestaurantProcesses	Semantics												
	Employee home address												
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions							
	HLAtoken	PS		TS	<u>HLAreliable</u>								
 HLAprivilegeToDeleteObject	Update type	Update Con	dition										
iLAprivilege robeleteObject	Static NA												
	Static	NA											
Inherited from HLAobjectRoot in MIM	Static Semantics	NA											

2.1.8. Dishwasher

Full Name: HLAobjectRoot.Employee.Dishwasher

Sharing: Publish/Subscribe

Semantics: Cleaner of plates, pots, and utensils

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	DollarRate	PS		TS	<u>HLAreliable</u>					
PayRate	Update type	Update Cond	Update Condition							
Inherited from Employee in	Conditional	Merit incre	ease							
RestaurantProcesses	Semantics									
	Amount the employee is paid per hour	r								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Years	PS		TS	<u>HLAreliable</u>					
YearsOfService	Update type Update Condition									
Inherited from Employee in RestaurantProcesses	Periodic 1/year									
RestaurantProcesses	Semantics									
	Number of years the employee has we	orked for the	e restaurant							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAASCIIstring	PS		TS	<u>HLAreliable</u>					
HomeNumber	Update type	Update Cond	dition							
Inherited from Employee in	Conditional	Employee	request							
RestaurantProcesses	Semantics	•								
	Employee home phone number									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	AddressType	PS		TS	<u>HLAreliable</u>					
HomeAddress	Update type	Update Cond	dition							
Inherited from Employee in RestaurantProcesses	Conditional	Employee	request							
KesiauraniProcesses	Semantics									
	Employee home address									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
HLAprivilegeToDeleteObject	HLAtoken	PS		TS	<u>HLAreliable</u>				
	Update type	Update Condition							
	Static	NA NA							
1	Semantics								

2.1.9. Cook

Full Name: HLAobjectRoot.Employee.Cook

Sharing: Publish/Subscribe
Semantics: Preparer of the meal

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	DollarRate	PS		TS	<u>HLAreliable</u>					
PayRate	Update type	Update Condition								
Inherited from Employee in RestaurantProcesses	Conditional	Merit incre	ease							
RestaurantProcesses	Semantics									
	Amount the employee is paid per hour									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Years	PS		TS	<u>HLAreliable</u>					
YearsOfService	Update type	Update Cond	lition							
Inherited from Employee in	Periodic	1/year								
RestaurantProcesses	Semantics									
	Number of years the employee has worked for the restaurant									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAASCIIstring	PS		TS	<u>HLAreliable</u>					
HomeNumber	Update type	Update Con	dition		<u> </u>					
Inherited from Employee in RestaurantProcesses	Conditional	Employee	request							
Kestauranti rocesses	Semantics									
	Employee home phone number									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	AddressType	PS		TS	<u>HLAreliable</u>					
HomeAddress	Update type	Update Condition								
Inherited from Employee in RestaurantProcesses	Conditional Employee request									
Residuranti rocesses	Semantics									
	Employee home address									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	<u>HLAtoken</u>	PS		TS	<u>HLAreliable</u>					
HLAprivilegeToDeleteObject	Update type	Update Con	dition		•					
Inherited from HLAobjectRoot in MIM	Static	NA								
	Semantics									

2.2. Interaction Classes

2.2.1. HLAinteractionRoot

Full Name: HLAinteractionRoot

Sharing:

Transportation type: <u>HLAreliable</u>

Order: Receive

Dimensions: Semantics: Parameters:

2.2.2. CustomerTransactions

Full Name: HLAinteractionRoot.CustomerTransactions

Sharing: Publish

Transportation type: <u>HLAreliable</u>
Order: Timestamp

Dimensions:

Semantics: The base class of interactions between customers and employee

Parameters:

2.2.3. CustomerSeated

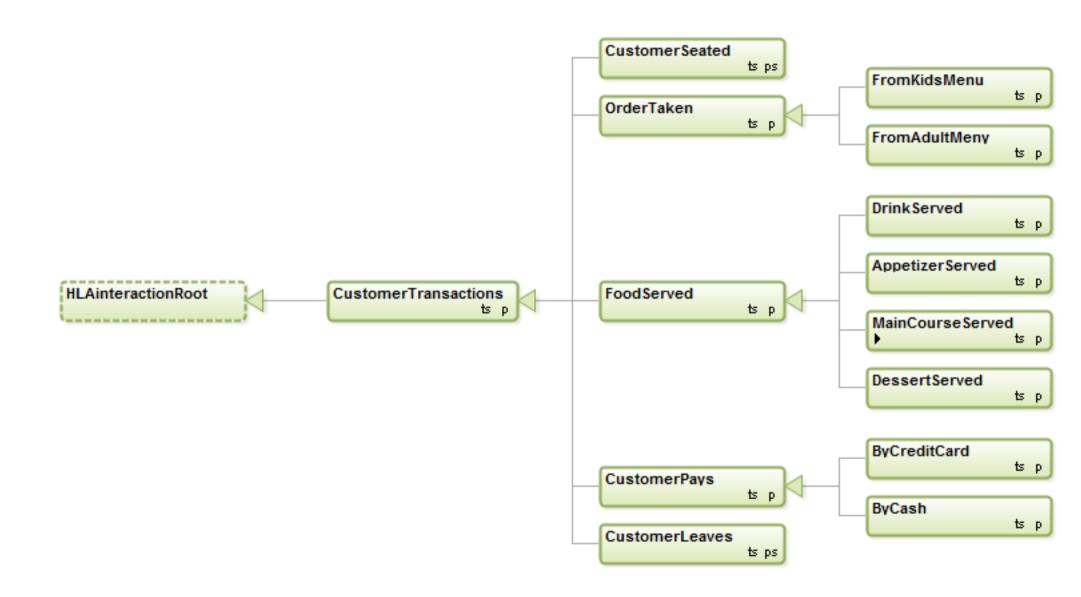
Full Name: HLAinteractionRoot.CustomerTransactions.CustomerSeated

Sharing: Publish/Subscribe

Transportation type: <u>HLAreliable</u>
Order: Timestamp

Dimensions:

Semantics: Customer has occupied a table



2.2.4. OrderTaken

Full Name: HLAinteractionRoot.CustomerTransactions.OrderTaken

Sharing: Publish

Transportation type: <u>HLAreliable</u> Order: Timestamp

Dimensions:

Semantics: Waiter has taken customers order

Parameters:

2.2.5. FromKidsMenu

Full Name: HLAinteractionRoot.CustomerTransactions.OrderTaken.FromKidsMenu

Sharing: Publish

Transportation type: <u>HLAreliable</u>
Order: Timestamp

Dimensions:

Semantics: Customer ordered from children menu

Parameters:

2.2.6. FromAdultMeny

Full Name: HLAinteractionRoot.CustomerTransactions.OrderTaken.FromAdultMeny

Sharing: Publish

Transportation type: <u>HLAreliable</u> Order: Timestamp

Dimensions:

Semantics: Customer ordered from normal menu

2.2.7. FoodServed

Full Name: HLAinteractionRoot.CustomerTransactions.FoodServed

Sharing: Publish

Transportation type: <u>HLAreliable</u> Order: Timestamp

Dimensions:

Semantics: Waiter has served food

Parameters:

2.2.8. DrinkServed

Full Name: HLAinteractionRoot.CustomerTransactions.FoodServed.DrinkServed

Sharing: Publish

Transportation type: <u>HLAreliable</u>
Order: Timestamp

Dimensions:

Semantics: Waiter has served a drink

Parameters:

2.2.9. AppetizerServed

Full Name: HLAinteractionRoot.CustomerTransactions.FoodServed.AppetizerServed

Sharing: Publish

Transportation type: <u>HLAreliable</u> Order: Timestamp

Dimensions:

Semantics: Waiter has served appetizers

2.2.10. MainCourseServed

Full Name: HLAinteractionRoot.CustomerTransactions.FoodServed.MainCourseServed

Sharing: Publish

Transportation type: <u>HLAreliable</u>
Order: Timestamp
Dimensions: WaiterId

Semantics: Waiter has served entree

Parameters:

Name	Datatype	Semantics
TemperatureOk	ServiceStat	Whether the food was the correct temperature
AccuracyOk	ServiceStat	Whether the correct food was served
TimlinessOk	HLAboolean	Whether the food was served in a reasonable amount of time

2.2.11. DessertServed

Full Name: HLAinteractionRoot.CustomerTransactions.FoodServed.DessertServed

Sharing: Publish

Transportation type: <u>HLAreliable</u>
Order: Timestamp

Dimensions:

Semantics: Waiter has served dessert

Parameters:

2.2.12. CustomerPays

Full Name: HLAinteractionRoot.CustomerTransactions.CustomerPays

Sharing: Publish

Transportation type: <u>HLAreliable</u>

Order: Timestamp

Dimensions:

Semantics: Customer has paid bill

Parameters:

2.2.13. ByCreditCard

Full Name: HLAinteractionRoot.CustomerTransactions.CustomerPays.ByCreditCard

Sharing: Publish

Transportation type: <u>HLAreliable</u>

Order: Timestamp

Dimensions:

Semantics: Credit card payment

Parameters:

2.2.14. **ByCash**

Full Name: HLAinteractionRoot.CustomerTransactions.CustomerPays.ByCash

Sharing: Publish

Transportation type: <u>HLAreliable</u>
Order: Timestamp

Dimensions:

Semantics: Cash payment

Parameters:

2.2.15. CustomerLeaves

Full Name: HLAinteractionRoot.CustomerTransactions.CustomerLeaves

Sharing: Publish/Subscribe

Transportation type: <u>HLAreliable</u>
Order: Timestamp

Dimensions:

Semantics: Customer departs restaurant

2.3. Datatypes

2.3.1. Basic Datatypes

UnsignedShort

Size in bits: 16

Interpretation: Integer in the range [0, 2^16 - 1]

Endian: Big

Encoding: 16-bit unsigned integer.

2.3.2. Simple Datatypes

TimeType

Representation: <u>HLAfloat32BE</u>

Units: Minutes Resolution: 0.01667

Accuracy: NA

Semantics: Time representation

LAType

Representation: <u>HLAfloat32BE</u>

Units: Minutes Resolution: 0.01667

Accuracy: NA

Semantics: Time interval (non-negative)

DollarRate

Page: 31

Representation: <u>HLAfloat32BE</u>

Units: \$/hour Resolution: 0.01 Accuracy: Perfect

Semantics: Cost per hour

Years

Representation: <u>HLAinteger32BE</u>

Units: Years

Resolution: 1

Accuracy: Perfect

Semantics: Elapsed time in years

DrinkCount

Representation: UnsignedShort

Units: Cups

Resolution: 1

Accuracy: Perfect

Semantics: Measure of number of drinks

EmplId

Representation: <u>HLAinteger32BE</u>

Units: NA Resolution: 1

Accuracy: Perfect

Semantics: Employee identifier

RateScale

Representation: <u>HLAinteger32BE</u>

Units: NA Resolution: 1

Accuracy: Perfect

Semantics: Evaluation of staff where 1 = best

2.3.3. Enumerated Datatypes

WaiterTasks

Representation: HLAinteger32BE

Semantics: Possible activities of waiters

Enumerators:

Enumerator	Value
TakingOrder	1
Serving	2
Cleaning	3
CalculatingBill	4
Other	5

ExperienceLevel

Representation: <u>HLAinteger32BE</u>

Semantics: Level of experience of waiters

Enumerators:

Enumerator	Value
Trainee	0
Apprentice	1

Enumerator	Value
Journeyman	2
Senior	3
Temporary	4
Master	5

FlavorType

Representation: HLAinteger32BE

Semantics: Possible flavors of soda

Enumerators:

Enumerator	Value
Cola	101
Orange	102
RootBeer	103
Cream	104

2.3.4. Array Datatypes

Employees

Element Type: EmplId Cardinality: 10

Encoding: HLAfixedArray

Semantics: Identifiers of employees currently working

AddressBook

Element Type: AddressType
Cardinality: Dynamic

Encoding: An HLAinteger32BE followed by a set of index-value tuples. Each tuple consists of an HLAinteger32BE

indicating the array index, followed by the element for that index. The initial HLAinteger32BE indicates the

number of index-value pairs to follow, since all array elements need not be included.

Semantics: Collection of all employee addresses

2.3.5. Fixed Record Datatypes

ServiceStat

Encoding: HLAfixedRecord

Semantics: Check-off on whether the server performed properly on elements of the meal

Fields:

Name	Туре	Semantic
EntreeOk	HLAboolean	Entree status
Veggy1Ok	HLAboolean	Vegetable 1 status
Veggy2Ok	HLAboolean	Vegetable 2 status

AddressType

Encoding: HLAfixedRecord Semantics: *Mailing address*

Fields:

Name	Туре	Semantic
Name	HLAASCIIstring	Employee name
Street	HLAASCIIstring	Street address
City	HLAASCIIstring	City name
State	HLAASCIIstring	State abbreviation
Zip	HLAASCIIstring	Postal code

2.3.6. Variant Record Datatypes

WaiterValue

Encoding: HLAvariantRecord

Discriminant name: ValIndex

Discriminant type: ExperienceLevel

Semantics: Datatype for waiter performance rating value

Alternatives:

Name	Enumerator	Туре	Semantics
CoursePassed	Trainee	HLAboolean	Ratings scale for employees under training
Rating	[Apprentice Senior], Master	RateScale	Ratings scale for permanent employees
Other	HLAother	HLAtoken	All others

2.4. User Supplied Tags

Update/Reflect

Datatype: NA Semantics: *NA*

Send/Receive

Datatype: NA Semantics: *NA*

Delete/Remove Note3

Datatype: <u>HLAASCIIstring</u>
Semantics: *Reason for deletion*

Divestiture Request

Datatype: NA Semantics: *NA*

Divestiture Completion

Datatype: NA Semantics: *NA*

Acquisition Request

Datatype: NA Semantics: *NA*

Request Update

Page: 37

Datatype: NA Semantics: *NA*

2.5. Dimensions

SodaFlavor

Datatype: FlavorType

Dimension upper bound: 3

Normalisation function: linearEnumerated (Flavor, [Cola, Orange, RootBeer])

Value when excluded: [0..3)

BarQuantity

Datatype: DrinkCount

Dimension upper bound: 25

Normalisation function: linear (NumberCups, 1, 25)

Value when excluded: [0)

WaiterId

Datatype: EmplId

Dimension upper bound: 20

Normalisation function: linear (WaiterId, 1, 20)

Value when excluded: Excluded

2.6. Time Representation

Timestamp

Datatype: <u>TimeType</u>

Semantics: Floating point value expressed in minutes

Lookahead

Datatype: <u>LAType</u>

Semantics: Floating point value expressed in minutes (non-negative)

2.7. Synchronization Points

InitialPublish

Tag Datatype: NA

Capability: Not Applicable

Semantics: Achieved when all classes are published and subscribed, and all initially present objects are registered

InitialUpdate

Tag Datatype: NA

Capability: Not Applicable

Semantics: Achieved when instance attribute values for all initially present objects are updated

BeginTimeAdvance

Tag Datatype: NA

Capability: Not Applicable

Semantics: Achieved when time management services are invoked

PauseExecution

Tag Datatype: TimeType

Capability: Not Applicable

Semantics: Achieved when the time advance after the time in the user-supplied tag is attained; time advance

requests should then cease

2.8. Transportation Types

LowLatency

Reliability: Best effort

Semantics: Choose the delivery mechanism that results in the lowest latency from service initiation to callback invocation at

the receiving federate

2.9. Update Rates

Low

Maximum update rate: 10.56

Semantics:

Hi

Maximum update rate: 60.0

Semantics:

2.10. Switches

Enabled Auto Provide Convey Region Designator Sets Disabled Convey Producing Federate Disabled Attribute Scope Advisory Disabled Attribute Relevance Advisory Disabled Object Class Relevance Advisory Enabled Interaction Relevance Advisory Enabled Service Reporting Disabled **Exception Reporting** Disabled **Delay Subscription Evaluation** Disabled

Automatic Resign Action CancelThenDeleteThenDivest

2.11. Notes

Note1

Semantics: Example of a note attached to the entire object model

Note2

Semantics: Example of a note attached to an entire table

Note3

Semantics: Example of a note attached to a table cell

Note4

Merit raises are not provided according to any regular time interval; they are provided on a supervisor's recommendation based on evidence of exceptional effort and performance Semantics:

Note5

Semantics: Years of service are a factor in any merit raise. This value is only changed on the anniversary of the employee's

3. Module RestaurantFood



Information

Name:	RestaurantFood
Type:	FOM
Version:	3.0
Modification Date:	2010-09-09
Security Classification:	Unclassified
Purpose:	To define a food module for a restaurant federation
Application Domain:	Restaurant operations
Description:	Food for the modular restaurant.
Use Limitation:	Derived models must reference this document
Other:	See Mobil International Restaurant Guide for more information

Keywords

Keyword	Taxonomy
Restaurant	Food Service Industry Taxonomy
Menu	Food Service Industry Taxonomy
Waiter	Food Service Industry Taxonomy

Sponsor Point Of Contact

Name:	Mr. Joseph Doe
Organization:	Joe's Place
Telephone:	1-977-555-1234

Email:	doej@fedfoods.com	
--------	-------------------	--

Author Point Of Contact

Name:	Mr. Sven Swede
Organization:	Federated Foods
Telephone:	
Email:	

References

HTML document	www.fedfoods.com/restsim.html
Federation Agreements	www.fedfoods.com/restsimAgreement.pdf
Dependency	RestaurantProcesses

Release Restrictions

Other organizations not related to Federated Foods

Use History

Originally used as an example in the DoD HLA 1.3 specification

Used as an example in the HLA IEEE1516.2-2000 specification

Used as an example in the HLA IEEE1516.2-2010 specification after conversion to a FOM module (MIM information stripped out)

3.1. Object Classes

3.1.1. **HLAobjectRoot**

Full Name: HLAobjectRoot

Sharing: Semantics: Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>HLAtoken</u>	PS		TS	<u>HLAreliable</u>				
	Update type	Update Cond	Update Condition						
	Static	NA NA							
	Semantics								

3.1.2. **Food**

Full Name: HLAobjectRoot.Food

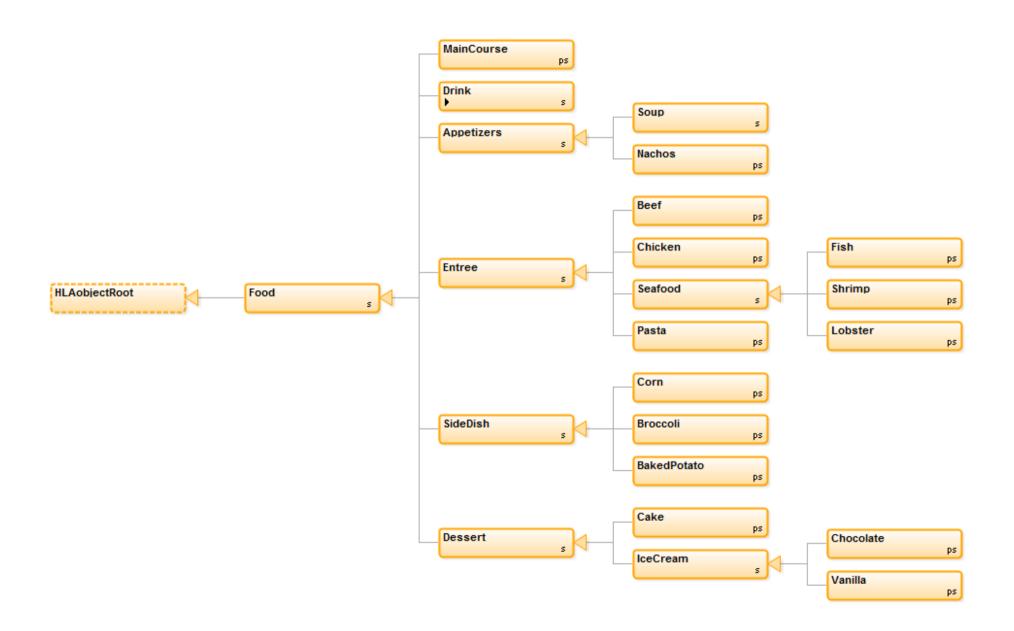
Sharing: Subscribe

Semantics: Products served at the restaurant

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions		
	HLAtoken	PS		TS	<u>HLAreliable</u>			
	Update type	Update Condition						
	Static	NA NA						
	Semantics							
		·		·				

3.1.3. MainCourse



Full Name: HLAobjectRoot.Food.MainCourse

Sharing: Publish/Subscribe
Semantics: *Principal dish*

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>HLAtoken</u>	PS		TS	<u>HLAreliable</u>				
	Update type	Update Cond	Update Condition						
Inherited from HLAobjectRoot in MIM	Static	NA NA							
	Semantics								

3.1.4. **Drink**

Full Name: HLAobjectRoot.Food.Drink

Sharing: Subscribe

Semantics: Liquid accompanyment to meal

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions		
	<u>DrinkCount</u>	PS		TS	<u>HLAreliable</u>	BarQuantity		
	Update type Update Condition							
NumberCups	Conditional Customer request							
	Semantics							
	Number of drinks							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions		
	<u>HLAtoken</u>	PS		TS	<u>HLAreliable</u>			
HLAprivilegeToDeleteObject	Update type Update Condition							
Inherited from HLAobjectRoot in MIM	Static	Static NA						
	Semantics							

3.1.5. Appetizers

Full Name: HLAobjectRoot.Food.Appetizers

Sharing: Subscribe

Semantics: Portion served before main course

Attributes:

HLAprivilegeToDeleteObject Inherited from HLAobjectRoot in MIM	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	<u>HLAtoken</u>	PS		TS	<u>HLAreliable</u>					
	Update type	Update Cond	Update Condition							
	Static	NA NA								
	Semantics									

3.1.6. **Soup**

Full Name: HLAobjectRoot.Food.Appetizers.Soup

Sharing: Subscribe
Semantics: Soup course

Attributes:

HLAprivilegeToDeleteObject Inherited from HLAobjectRoot in MIM	Datatype	Sharing	Ownership	Order	Transportation	Dimensions		
	<u>HLAtoken</u>	PS		TS	<u>HLAreliable</u>			
	Update type	Update Condition						
	Static	NA NA						
	Semantics							

3.1.7. **Nachos**

Full Name: HLAobjectRoot.Food.Appetizers.Nachos

Sharing: Publish/Subscribe

Semantics: Nachos

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>HLAtoken</u>	PS		TS	<u>HLAreliable</u>				
	Update type	Update Condition							
	Static	NA NA							
· · · · · · · · · · · · · · · · · · ·	Semantics								

3.1.8. **Entree**

Full Name: HLAobjectRoot.Food.Entree

Sharing: Subscribe

Semantics: Principal dish

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>HLAtoken</u>	PS		TS	<u>HLAreliable</u>				
	Update type	Update Condition							
	Static	NA NA							
Inneraca from 1122100 feethoor in 111111	Semantics								

3.1.9. **Beef**

Full Name: HLAobjectRoot.Food.Entree.Beef

Sharing: Publish/Subscribe

Semantics: Beef entree

HLAprivilegeToDeleteObject	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	HLAtoken	PS		TS	<u>HLAreliable</u>				
	Update type	Update Condition							
I =	Static	NA NA							
l l l l l l l l l l l l l l l l l l l	Semantics								

3.1.10. Chicken

Full Name: HLAobjectRoot.Food.Entree.Chicken

Sharing: Publish/Subscribe
Semantics: Chicken entree

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAtoken	PS		TS	<u>HLAreliable</u>					
	Update type	Update Cond	Update Condition							
Inherited from HLAobjectRoot in MIM	Static	NA NA								
	Semantics									

3.1.11. Seafood

Full Name: HLAobjectRoot.Food.Entree.Seafood

Sharing: Subscribe

Semantics: Seafood entree

HLAprivilegeToDeleteObject	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	HLAtoken	PS		TS	<u>HLAreliable</u>				
	Update type	Update Condition							
I =	Static	NA NA							
l l l l l l l l l l l l l l l l l l l	Semantics								

3.1.12. **Fish**

Full Name: HLAobjectRoot.Food.Entree.Seafood.Fish

Sharing: Publish/Subscribe
Semantics: Fish of the day

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAtoken	PS		TS	<u>HLAreliable</u>					
	Update type	Update Cond	Update Condition							
Inherited from HLAobjectRoot in MIM	Static	NA NA								
	Semantics									

3.1.13. **Shrimp**

Full Name: HLAobjectRoot.Food.Entree.Seafood.Shrimp

Sharing: Publish/Subscribe Semantics: *Shrimp scampi*

HLAprivilegeToDeleteObject	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	HLAtoken	PS		TS	<u>HLAreliable</u>				
	Update type	Update Condition							
I =	Static	NA NA							
l l l l l l l l l l l l l l l l l l l	Semantics								

3.1.14. Lobster

Full Name: HLAobjectRoot.Food.Entree.Seafood.Lobster

Sharing: Publish/Subscribe
Semantics: Lobster thermador

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>HLAtoken</u>	PS		TS	<u>HLAreliable</u>				
	Update type	Update Condition							
1	Static	NA NA							
	Semantics								

3.1.15. **Pasta**

Full Name: HLAobjectRoot.Food.Entree.Pasta

Sharing: Publish/Subscribe

Semantics: Pasta entree

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>HLAtoken</u>	PS		TS	<u>HLAreliable</u>				
HLAprivilegeToDeleteObject	Update type	Update Condition							
	Static	NA NA							
Innerned from 1121 toojeen toot in 11111	Semantics								

3.1.16. **SideDish**

Full Name: HLAobjectRoot.Food.SideDish

Sharing: Subscribe

Semantics: ala carte dishes

Attributes:

HLAprivilegeToDeleteObject Inherited from HLAobjectRoot in MIM	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAtoken	PS		TS	<u>HLAreliable</u>					
	Update type	Update Condition								
	Static	NA NA								
	Semantics									

3.1.17. **Corn**

Full Name: HLAobjectRoot.Food.SideDish.Corn

Sharing: Publish/Subscribe
Semantics: Corn side dish

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
HLAprivilegeToDeleteObject	HLAtoken	PS		TS	<u>HLAreliable</u>				
	Update type	Update Condition							
	Static	NA NA							
Inner near from 1122 to be control in 11111	Semantics								

3.1.18. **Broccoli**

Full Name: HLAobjectRoot.Food.SideDish.Broccoli

Sharing: Publish/Subscribe Semantics: *Broccoli side dish*

Attributes:

HLAprivilegeToDeleteObject Inherited from HLAobjectRoot in MIM	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAtoken	PS		TS	<u>HLAreliable</u>					
	Update type	Update Condition								
	Static	NA NA								
	Semantics									

3.1.19. BakedPotato

Full Name: HLAobjectRoot.Food.SideDish.BakedPotato

Sharing: Publish/Subscribe

Semantics: Baked potato side dish

HLAprivilegeToDeleteObject Inherited from HLAobjectRoot in MIM	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	<u>HLAtoken</u>	PS		TS	<u>HLAreliable</u>					
	Update type	Update Cond	Update Condition							
	Static	NA .								
	Semantics									

3.1.20. **Dessert**

Full Name: HLAobjectRoot.Food.Dessert

Sharing: Subscribe Semantics: *Deserts*

Attributes:

HLAprivilegeToDeleteObject Inherited from HLAobjectRoot in MIM	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	HLAtoken	PS		TS	<u>HLAreliable</u>				
	Update type	Update Condition							
	Static	NA NA							
	Semantics								

3.1.21. **Cake**

Full Name: HLAobjectRoot.Food.Dessert.Cake

Sharing: Publish/Subscribe

Semantics: Cake dessert

HLAprivilegeToDeleteObject Inherited from HLAobjectRoot in MIM	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAtoken	PS		TS	<u>HLAreliable</u>					
	Update type	Update Cond	Update Condition							
	Static	NA NA								
	Semantics									

3.1.22. **IceCream**

Full Name: HLAobjectRoot.Food.Dessert.IceCream

Sharing: Subscribe

Semantics: *Ice cream dessert*

Attributes:

HLAprivilegeToDeleteObject Inherited from HLAobjectRoot in MIM	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	HLAtoken	PS		TS	<u>HLAreliable</u>				
	Update type	Update Condition							
	Static	NA NA							
	Semantics								

3.1.23. **Chocolate**

Full Name: HLAobjectRoot.Food.Dessert.IceCream.Chocolate

Sharing: Publish/Subscribe
Semantics: Chocolate ice cream

HLAprivilegeToDeleteObject Inherited from HLAobjectRoot in MIM	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	HLAtoken	PS		TS	<u>HLAreliable</u>				
	Update type	Update Condition							
	Static	NA NA							
	Semantics								

3.1.24. Vanilla

Full Name: HLAobjectRoot.Food.Dessert.IceCream.Vanilla

Sharing: Publish/Subscribe Semantics: *vanilla ice cream*

HLAprivilegeToDeleteObject Inherited from HLAobjectRoot in MIM	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>HLAtoken</u>	PS		TS	<u>HLAreliable</u>				
	Update type	Update Condition							
	Static	NA NA							
	Semantics	•							

3.2. Datatypes

3.2.1. Simple Datatypes

DrinkCount

Representation: UnsignedShort

Units: Cups Resolution: 1

Accuracy: Perfect

Semantics: Measure of number of drinks

3.3. User Supplied Tags

Update/Reflect

Datatype: NA Semantics: *NA*

Send/Receive

Datatype: NA Semantics: *NA*

Delete/Remove

Datatype: <u>HLAASCIIstring</u>
Semantics: *Reason for deletion*

Divestiture Request

Datatype: NA Semantics: *NA*

Divestiture Completion

Datatype: NA Semantics: *NA*

Acquisition Request

Datatype: NA Semantics: NA

Request Update

Datatype: NA Semantics: *NA*

3.4. Dimensions

SodaFlavor

Datatype: FlavorType

Dimension upper bound: 3

Normalisation function: linearEnumerated (Flavor, [Cola, Orange, RootBeer])

Value when excluded: [0..3)

BarQuantity

Datatype: DrinkCount

Dimension upper bound: 25

Normalisation function: linear (NumberCups, 1, 25)

Value when excluded: [0)

WaiterId

Datatype: EmplId
Dimension upper bound: 20

Normalisation function: linear (WaiterId, 1, 20)

Value when excluded: Excluded

4. Module RestaurantDrinks



Information

Name:	RestaurantDrinks
Type:	FOM
Version:	4.0
Modification Date:	2010-09-09
Security Classification:	Unclassified
Purpose:	To define a drink module for a restaurant federation
Application Domain:	Restaurant operations
Description:	Drinks for the modular restaurant.
Use Limitation:	Derived models must reference this document
Other:	See Mobil International Restaurant Guide for more information

Keywords

Keyword	Taxonomy
Restaurant	Food Service Industry Taxonomy
Menu	Food Service Industry Taxonomy

Waiter	Food Service Industry Taxonomy
--------	--------------------------------

Sponsor Point Of Contact

Name:	Mr. Joseph Doe
Organization:	Joe's Place
Telephone:	1-977-555-1234
Email:	doej@fedfoods.com

Author Point Of Contact

Name:	Mr. Sven Swede
Organization:	Federated Foods
Telephone:	
Email:	

References

HTML document	www.fedfoods.com/restsim.html
Federation Agreements	www.fedfoods.com/restsimAgreement.pdf
Dependency	RestaurantFood

Release Restrictions

Other organizations not related to Federated Foods

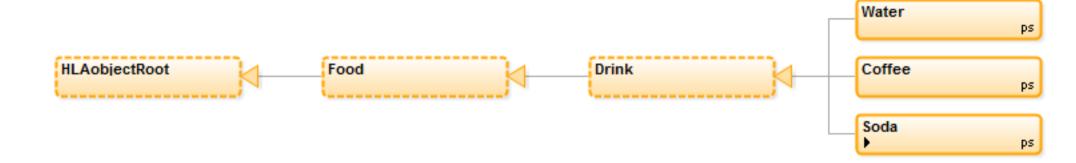
Use History

Originally used as an example in the DoD HLA 1.3 specification

Used as an example in the HLA IEEE1516.2-2000 specification

Used as an example in the HLA IEEE1516.2-2010 specification after conversion to a FOM module (MIM information stripped out)

4.1. Object Classes



4.1.1. HLAobjectRoot

Full Name: HLAobjectRoot

Sharing: Semantics: Attributes:

HLAprivilegeToDeleteObject Inherited from HLAobjectRoot in MIM	Datatype	Sharing	Ownership	Order	Transportation	Dimensions		
	HLAtoken	PS		TS	<u>HLAreliable</u>			
	Update type	Update Condition						
	Static	NA NA						
	Semantics							

4.1.2. **Food**

Full Name: HLAobjectRoot.Food

Sharing: Semantics: Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions		
	HLAtoken	PS		TS	<u>HLAreliable</u>			
	Update type	Update Condition						
	Static	NA NA						
	Semantics							

4.1.3. **Drink**

Full Name: HLAobjectRoot.Food.Drink

Sharing: Semantics: Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>DrinkCount</u>	PS		TS	<u>HLAreliable</u>	<u>BarQuantity</u>			
NumberCups	pdate type Update Condition								
Inherited from Drink in RestaurantFood	Conditional Customer request								
,	Semantics								
	Number of drinks								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>HLAtoken</u>	PS		TS	<u>HLAreliable</u>				
HLAprivilegeToDeleteObject	Update type Update Condition								
Inherited from HLAobjectRoot in MIM	Static	NA							
, ,	Semantics	•							

4.1.4. Water

Full Name: HLAobjectRoot.Food.Drink.Water

Sharing: Publish/Subscribe

Semantics: Tap water

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>DrinkCount</u>	PS		TS	<u>HLAreliable</u>	<u>BarQuantity</u>			
NumberCups	Update type	Update Condition							
Inherited from Drink in RestaurantFood	Conditional	al Customer request							
v	Semantics								
	Number of drinks								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>HLAtoken</u>	PS		TS	<u>HLAreliable</u>				
HLAprivilegeToDeleteObject	Update type	Update Cond	lition						
Inherited from HLAobjectRoot in MIM	Static	NA							
, ,	Semantics	•							

4.1.5. **Coffee**

Full Name: HLAobjectRoot.Food.Drink.Coffee

Sharing: Publish/Subscribe
Semantics: *Brewed coffee*

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>DrinkCount</u>	PS		TS	<u>HLAreliable</u>	<u>BarQuantity</u>			
NumberCups	Update type	Update Condition							
Inherited from Drink in RestaurantFood	Conditional	Customer	request						
J	Semantics								
	Number of drinks								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>HLAtoken</u>	PS		TS	<u>HLAreliable</u>				
HLAprivilegeToDeleteObject	Update type	Update Cond	lition						
Inherited from HLAobjectRoot in MIM	Static	NA							
·	Semantics								

4.1.6. **Soda**

Full Name: HLAobjectRoot.Food.Drink.Soda

Sharing: Publish/Subscribe
Semantics: Carbonated beverage

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	FlavorType	PS		TS	<u>HLAreliable</u>	SodaFlavor BarQuantity				
	Update type Update Condition									
Flavor	Conditional	Conditional Customer request								
	Semantics									
	Flavor of soda	Flavor of soda								

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	<u>DrinkCount</u>	PS		TS	<u>HLAreliable</u>	BarQuantity				
NumberCups	Update type	Update Condition								
Inherited from Drink in RestaurantFood	Conditional	Customer request								
,	Semantics									
	Number of drinks									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAtoken	PS		TS	<u>HLAreliable</u>					
HLAprivilegeToDeleteObject	Update type	Update Cond	lition							
Inherited from HLAobjectRoot in MIM	Static	NA								
	Semantics									

4.2. Datatypes

4.2.1. Enumerated Datatypes

FlavorType

Representation: HLAinteger32BE

Semantics: Possible flavors of soda

Enumerators:

Enumerator	Value
Cola	101
Orange	102
RootBeer	103
Cream	104

5. Module RestaurantSoup



Information

Name:	RestaurantSoup
Type:	FOM
Version:	1.0
Modification Date:	2010-09-09
Security Classification:	Unclassified
Purpose:	To define a soup module for a restaurant federation
Application Domain:	Restaurant operations
Description:	Soup for the modular restaurant.
Use Limitation:	Derived models must reference this document
Other:	See Mobil International Restaurant Guide for more information

Keywords

Keyword	Taxonomy
Restaurant	Food Service Industry Taxonomy
Menu	Food Service Industry Taxonomy
Waiter	Food Service Industry Taxonomy

Sponsor Point Of Contact

Name:	Mr. Joseph Doe
Organization:	Joe's Place
Telephone:	1-977-555-1234
Email:	doej@fedfoods.com

Author Point Of Contact

Name:	Mr. Sven Swede
Organization:	Federated Foods
Telephone:	
Email:	

References

Dependency	RestaurantFood
HTML document	www.fedfoods.com/restsim.html
Federation Agreements	www.fedfoods.com/restsimAgreement.pdf

Release Restrictions

Other organizations not related to Federated Foods

Use History

Originally used as an example in the DoD HLA 1.3 specification

Used as an example in the HLA IEEE1516.2-2000 specification

Used as an example in the HLA IEEE1516.2-2010 specification after conversion to a FOM module (MIM information stripped out)

5.1. Object Classes



5.1.1. HLAobjectRoot

Full Name: HLAobjectRoot

Sharing: Semantics: Attributes:

HLAprivilegeToDeleteObject Inherited from HLAobjectRoot in MIM	Datatype	Sharing	Ownership	Order	Transportation	Dimensions		
	HLAtoken	PS		TS	<u>HLAreliable</u>			
	Update type	Update Condition						
	Static	NA NA						
	Semantics							

5.1.2. **Food**

Full Name: HLAobjectRoot.Food

Sharing:
Semantics:
Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	HLAtoken	PS		TS	<u>HLAreliable</u>				
	Update type	Update Cond	Update Condition						
I =	Static	NA NA							
	Semantics								

5.1.3. **Appetizers**

Full Name: HLAobjectRoot.Food.Appetizers

Sharing: Semantics: Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	HLAtoken	PS		TS	<u>HLAreliable</u>				
	Update type	Update Cond	Update Condition						
	Static	NA NA							
innernea from 112 tobjectitoor in 111111	Semantics								

5.1.4. **Soup**

Full Name: HLAobjectRoot.Food.Appetizers.Soup

Sharing: Semantics: Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	HLAtoken	PS		TS	<u>HLAreliable</u>				
	Update type	Update Condition							
	Static	NA NA							
	Semantics								

5.1.5. ClamChowder

Full Name: HLAobjectRoot.Food.Appetizers.Soup.ClamChowder

Sharing: Publish/Subscribe
Semantics: Clam chowder

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions		
	<u>HLAtoken</u>	PS		TS	<u>HLAreliable</u>			
	Update type	Update Condition						
1	Static	NA NA						
l "	Semantics							

5.1.6. Manhattan

Full Name: HLAobjectRoot.Food.Appetizers.Soup.ClamChowder.Manhattan

Sharing: Publish

Semantics: Manhattan style clam chowder

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	HLAtoken	PS		TS	<u>HLAreliable</u>				
	Update type	Update Cond	Update Condition						
I =	Static	NA NA							
	Semantics								

5.1.7. NewEngland

Full Name: HLAobjectRoot.Food.Appetizers.Soup.ClamChowder.NewEngland

Sharing: Publish

Semantics: New England style clam chowder

Attributes:

HLAprivilegeToDeleteObject Inherited from HLAobjectRoot in MIM	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>HLAtoken</u>	PS		TS	<u>HLAreliable</u>				
	Update type	Update Condition							
	Static	NA NA							
	Semantics								

5.1.8. BeefBarley

Full Name: HLAobjectRoot.Food.Appetizers.Soup.BeefBarley

Sharing: Publish/Subscribe
Semantics: *Beef barley soup*

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>HLAtoken</u>	PS		TS	<u>HLAreliable</u>				
	Update type	Update Cond	Update Condition						
	Static	NA NA							
	Semantics								