

Enterprise Application Integration & Service Oriented Architecture

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Enterprise Service Bus - Service Catalog

Overview

Emory Healthcare has implemented and evolved a messaging, enterprise application integration (EAI), and service oriented architecture (SOA) infrastructure built on IBM MQ Series, IBM WebSphere, and internally developed foundation components. Historically Emory University typically developed point-to-point, batch file-based integration. In recent years Emory University has adopted [OpenEAI](#) as its integration method and uses SonicMQ, OpenEAI reference implementations, and other open integration services to implement its Enterprise Service Bus (ESB) infrastructure.

Emory prefers to integrate with vended applications using web services technologies and looks for vended systems that expose their data and logic using WSDL-described and REST web services. When Emory develops applications the logic and data of these systems are exposed as services in Emory's ESB infrastructure. These services can be exposed to other systems as WSDL-described web services. When vended applications provide no web services interface, Emory uses ESB connector methods and tools to expose the applications' data and logic using other application programming interfaces (APIs) the applications provide or their underlying data stores.

Both Emory University and Emory Healthcare register their web services in the [Emory Web Service Registry](#) (requires Emory authentication).

Terms

MOA - Message Object API, which is the business-object-oriented API. Message Objects are contained within the MOA builds. The jar files and MOAs are referenced for each Message Object in production.

Sample Message - An example of the message, in xml format, with some example data.

Subject Matter Expert - The person most knowledgeable about the application. This will more than likely be the developer, or perhaps the person responsible for creating the analysis template.

Java Docs - The documentation generated during the build of an application on the build and package server. It can be used to understand what classes, methods, and other information reside in a package.

Data Custodian - The person or group responsible for granting access to specific data.

Analysis Template - The design artifact that is created at the beginning of an Integration. It details what systems, applications, and message objects will be encapsulated in the integration, as well as any business rules.

Producer - An application that produces message objects for publication on the ESB.

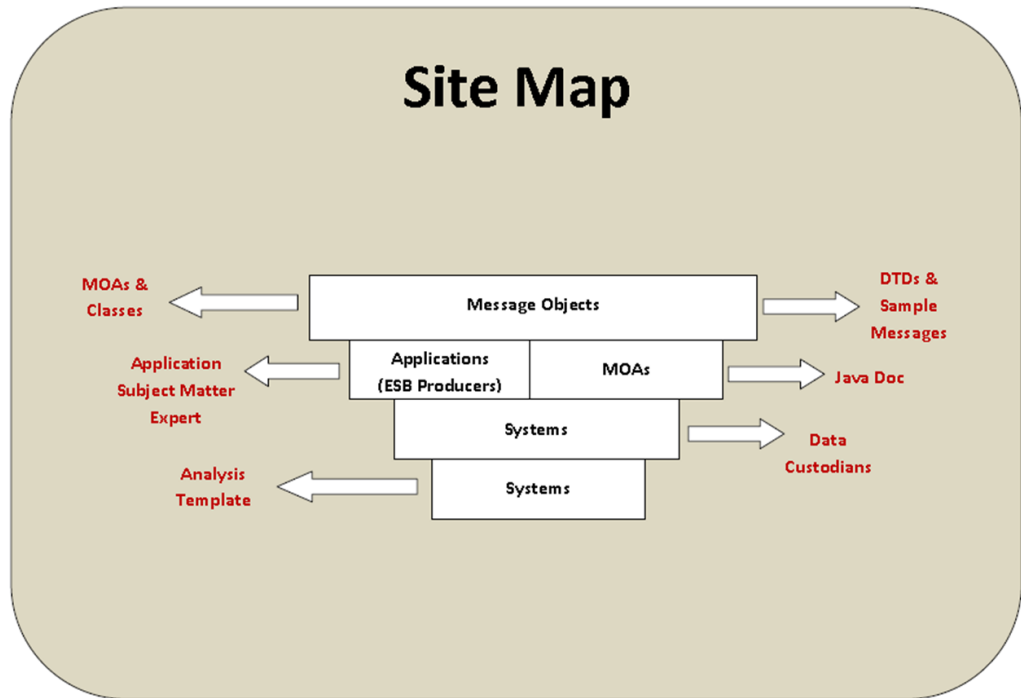
Consumer - An application that consumes message objects from the ESB.

Applications - Java Applications that run in the ESB and can be Started, Stopped, and Scheduled through the Openii Console. These applications either produce or consume message objects to and from the ESB message transport queues and topics.

Systems - Any database, web service, or program (inside or outside of Emory) that contains data that is exposed or consumed by the ESB applications.

Integrations - The complex flow of data between systems through one or many applications over the ESB and its message transport as laid out in the analysis template.

Diagram of This site



Message Objects

Emory has defined the following message objects:

message objects	message object api
edu.emory.Finance.AccountCategory	Emory MOA
com.amcom.DataFeed.Person	Amcom MOA
edu.emory.Telecom.AssignedPager	Emory MOA
com.amcom.DataFeed.Building	Amcom MOA
com.americanmessaging.Identity.PersonLookup	American Messaging MOA
com.americanmessaging.Finance.SmartKeyLookup	American Messaging MOA
com.blackboard.Administration.CourseSite	Blackboard MOA
com.blackboard.Administration.BasicCourseSite	Blackboard MOA
com.blackboard.Administration.Enrollment	Blackboard MOA

com.blackboard.Administration.Person	Blackboard MOA
edu.emory.SponsoredPrograms.ConflictOfInterest	Emory MOA
edu.emory.Identity.Employee	Emory MOA
edu.emory.SponsoredPrograms.ExtramuralProposal	Emory MOA
edu.emory.Facilities.FacilitiesBuilding	Emory MOA
edu.emory.Identity.FullPerson	Emory MOA
com.sciquest.Procurement.Invoice	Sciquest MOA
com.clickcommerce.Research.IrbProposal	ClickCommerce MOA
edu.emory.Identity.NetworkIdentity	Emory MOA
com.amcom.DataFeed.Org	Amcom MOA
edu.emory.Identity.Person	Emory MOA
edu.emory.Identity.ProvisionPerson	Emory MOA
com.amcom.DataFeed.ProfileSpecialty	Amcom MOA
com.amcom.DataFeed.ProfilePager	Amcom MOA
com.sciquest.Procurement.PurchaseOrder	Sciquest MOA
edu.emory.Finance.SmartKey	Emory MOA
edu.emory.Telecom.Specialty	Emory MOA
edu.emory.Identity.SponsoredPerson	Emory MOA
edu.emory.Identity.Student	Emory MOA
edu.emory.Logging.HipaaAuditLogEntry	Emory MOA
com.exacttarget.Email.ListSend	Exact Target MOA
com.exacttarget.Email.Send	Exact Target MOA
com.exacttarget.Email.Subscriber	Exact Target MOA
com.exacttarget.Email.SubscriberStatusEvent	Exact Target MOA
com.exacttarget.Email.TrackingEvent	Exact Target MOA
com.exacttarget.Email.Account	Exact Target MOA
com.zabbix.Zabbix.Event	Zabbix MOA
org.actsi.Study.MasterPatientParticipantIdentity	Actsi MOA
org.actsi.Study.ResearchSubject	Actsi MOA
com.oracle.peoplesoft.Student.CLASS_TBL	PeopleSoft MOA
com.oracle.peoplesoft.Student.STDNT_ENRL	PeopleSoft MOA
com.oracle.peoplesoft.Finance.CUSTOMER	PeopleSoft MOA
com.oracle.peoplesoft.Finance.GM_AWARD	PeopleSoft MOA
com.oracle.peoplesoft.moa.jmsobjects.finance.v1_0.GM_AWD_LIST	PeolpeSoft MOA
com.oracle.peoplesoft.moa.jmsobjects.finance.v1_0.GM_AWD	PeolpeSoft MOA
com.oracle.peoplesoft.moa.jmsobjects.finance.v1_0.GM_PRJ_LIST	PeolpeSoft MOA
com.oracle.peoplesoft.moa.jmsobjects.finance.v1_0.GM_PRJ	PeolpeSoft MOA
com.oracle.peoplesoft.Finance.GM_PROP	PeolpeSoft MOA
com.oracle.peoplesoft.Finance.GM_PROP_PRJ_LST	PeolpeSoft MOA
com.oracle.peoplesoft.Finance.GM_PROP_PRJ_DTL	PeolpeSoft MOA
com.oracle.peoplesoft.Finance.GM_PROP_WF	PeopleSoft MOA

com.oracle.peoplesoft.Finance.SPEEDCHART	PeopleSoft MOA
com.oracle.peoplesoft.moa.jmsobjects.elms.v1_0.LM_PRSN_CERT	PeolpeSoft MOA
com.orgsync.moa.jmsobjects.orgdata.v1_0.OrgPerson	OrgSync MOA
edu.emory.sph.WebEase.Annoucement	WebEase MOA
edu.emory.sph.WebEase.AuthenticUser	WebEase MOA
edu.emory.sph.WebEase.FrequentlyAskedQuestion	WebEase MOA
edu.emory.sph.WebEase.LocalizedText	WebEase MOA
edu.emory.sph.WebEase.LogEntry	WebEase MOA
edu.emory.sph.WebEase.Module	WebEase MOA
edu.emory.sph.WebEase.Page	WebEase MOA
edu.emory.sph.WebEase.PatientMedication	WebEase MOA
edu.emory.sph.WebEase.PatientMedicationEvent	WebEase MOA
edu.emory.sph.WebEase.PatientMedicationEventCount	WebEase MOA
edu.emory.sph.WebEase.PatientModuleStatus	WebEase MOA
edu.emory.sph.WebEase.PatientProfile	WebEase MOA
edu.emory.sph.WebEase.PatientSeizureDescription	WebEase MOA
edu.emory.sph.WebEase.PatientSeizureEvent	WebEase MOA
edu.emory.sph.WebEase.PatientSeizureEventCount	WebEase MOA
edu.emory.sph.WebEase.PatientSeizureType	WebEase MOA
edu.emory.sph.WebEase.PatientSurveyResponse	WebEase MOA
edu.emory.sph.WebEase.Phase	WebEase MOA
edu.emory.sph.WebEase.PossibleSurveyResponse	WebEase MOA
edu.emory.sph.WebEase.PrivacyPolicy	WebEase MOA
edu.emory.sph.WebEase.Rating	WebEase MOA
edu.emory.sph.WebEase.Section	WebEase MOA
edu.emory.sph.WebEase.SummaryReport	WebEase MOA
edu.emory.sph.WebEase.Survey	WebEase MOA
edu.emory.sph.WebEase.SurveyQuestion	WebEase MOA
edu.emory.sph.WebEase.TermsOfUse	WebEase MOA
edu.emory.sph.WebEase.TermsOfUseAgreement	WebEase MOA
edu.emory.sph.WebEase.UserAccount	WebEase MOA
edu.emory.sph.WebEase.UserFeedback	WebEase MOA
edu.emory.sph.WebEase.UserNotification	WebEase MOA
edu.emory.sph.WebEase.UserPermission	WebEase MOA
edu.emory.sph.WebEase.UserSecurityQuestion	WebEase MOA
edu.emory.sph.WebEase.UserSession	WebEase MOA
edu.emory.sph.WebEase.UserSupportRequest	WebEase MOA
edu.emory.sph.WebEase.ValidDeliveryMethod	WebEase MOA
edu.emory.sph.WebEase.ValidFrequency	WebEase MOA
edu.emory.sph.WebEase.ValidLocale	WebEase MOA
edu.emory.sph.WebEase.ValidMedication	WebEase MOA

edu.emory.sph.WebEase.ValidPattern	WebEase MOA
edu.emory.sph.WebEase.ValidPermission	WebEase MOA
edu.emory.sph.WebEase.ValidReferral	WebEase MOA
edu.emory.sph.WebEase.ValidRole	WebEase MOA
edu.emory.sph.WebEase.ValidSecurityQuestion	WebEase MOA
edu.emory.sph.WebEase.ValidSeizureType	WebEase MOA
edu.emory.sph.WebEase.ValidStressor	WebEase MOA
edu.emory.sph.WebEase.ValidTrigger	WebEase MOA
edu.emory.sph.WebEase.ValidUserFeedbackType	WebEase MOA
edu.emory.surgery.MassiveTransfusionProtocol.MtpCaseRecord	Mtp MOA
edu.emory.surgery.MassiveTransfusionProtocol.UserPasscode	Mtp MOA
com.rave.SiteAdmin.MobileCarrier	Rave MOA
com.rave.UserManagement.ListMemberships	Rave MOA
com.rave.UserManagement.RaveUser	Rave MOA

Applications

The applications that implement these integrations are:

Applications	ESB Action	Message Objects	WSDL Generated	WSDL Location	Subject Matter Experts
PeopleSoftServiceFs	Point2Point Consumer	com.oracle.peoplesoft.moa.jmsobjects.finance.v1_0.GM_PROP com.oracle.peoplesoft.moa.jmsobjects.finance.v1_0.GM_PROP_PRJ_LST com.oracle.peoplesoft.moa.jmsobjects.finance.v1_0.GM_PROP_PRJ_DTL com.oracle.peoplesoft.moa.jmsobjects.finance.v1_0.GM_PROP_WF			Kelly Bray
PeopleSoftServiceSa	Point2Point Consumer	com.oracle.peoplesoft.moa.jmsobjects.student.v1_0.CLASS_TBL			Kelly Bray
RaveConnector	SyncConsumer Point2Point Consumer	edu.emory.moa.jmsobjects.identity.v2_0.FullPerson com.rave.moa.jmsobjects.siteadmin.v1_0.MobileCarrier com.rave.moa.jmsobjects.usermanagement.v1_0.ListMemberships com.rave.moa.jmsobjects.usermanagement.v1_0.RaveUser	NA		Kelly Bray
AMCOM Service	SyncConsumer SyncProducer	edu.emory.moa.jmsobjects.finance.v1_0.SmartKey edu.emory.moa.jmsobjects.identity.v2_0.FullPerson edu.emory.moa.jmsobjects.telecom.v1_0.Specialty edu.emory.moa.jmsobjects.facilities.v2_0.FacilitiesBuilding edu.emory.moa.jmsobjects.telecom.v1_0.AssignedPager com.service_now.moa.jmsobjects.servicedesk.v1_0.Incident com.amcom.moa.jmsobjects.paging.v1_0.Event	NA		Kelly Bray
FullPersonRequestProxy	Point2Point Consumer	edu.emory.moa.objects.resources.v2_0.FullPersonQuerySpecification edu.emory.moa.jmsobjects.identity.v2_0.FullPerson	Yes	dev	Kelly Bray
Identity Service	SyncProducer	edu.emory.moa.jmsobjects.identity.v2_0.Employee edu.emory.moa.jmsobjects.identity.v1_0.NetworkIdentity edu.emory.moa.jmsobjects.identity.v1_0.Student edu.emory.moa.jmsobjects.identity.v2_0.Person edu.emory.moa.jmsobjects.identity.v2_0.SponsoredPerson	NA		Kelly Bray
Identity Service 2	SyncProducer	edu.emory.moa.jmsobjects.identity.v2_0.FullPerson	NA		Kelly Bray
EmoryCommonsConnector	SyncConsumer	edu.emory.moa.jmsobjects.identity.v2_0.FullPerson	NA		Kelly Bray
IdmEventAggregator Connector	SyncConsumer	edu.emory.moa.jmsobjects.identity.v2_0.FullPerson	NA		Kelly Bray
DataWarehouse Connector	SyncConsumer	com.sciquest.moa.jmsobjects.procurement.v1_0.Invoice com.sciquest.moa.jmsobjects.procurement.v1_0.PurchaseOrder	NA		Kelly Bray

Sciquest Connector	SyncProducer	com.sciquest.moa.jmsobjects.procurement.v1_0.Invoice com.sciquest.moa.jmsobjects.procurement.v1_0.PurchaseOrder	NA		Kelly Bray
Blackboard ConnectorV2	SyncConsumer	edu.emory.moa.jmsobjects.identity.v2_0.Person	NA		Julia Leon
Service Now Gateway	SyncConsumer	edu.emory.moa.jmsobjects.identity.v2_0.Person com.amcom.moa.jmsobjects.paging.v1_0.Event	NA		Kelly Bray
ExactTarget Service	SyncProducer	com.exacttarget.moa.jmsobjects.email.v1_0.TrackingEvent	NA		Julia Leon
eIRB Connector	SyncPublisher	com.clickcommerce.moa.jmsobjects.research.v1_0.IrbProposal	NA		Kelly Bray
MySoft Connector	SyncPublisher	edu.emory.moa.jmsobjects.finance.v1_0.SmartKey	NA		Kelly Bray
ACE Connector	SyncConsumer	com.exacttarget.moa.jmsobjects.email.v1_0.TrackingEvent	NA		Julia Leon
HL7 Message Receiver Service	SyncConsumer	org.hl7.moa.jmsobjects.model.v1_0.Message	NA		Kevin Chen
MessageDumpService	SyncConsumer	org.hl7.moa.jmsobjects.model.v1_0.Message	NA		Kevin Chen
ESB PACS Service	SyncPublisher	org.nema.moa.jmsobjects.services.v1_0.Dicom	NA		Kevin Chen
Authorization Service	Point2Point Consumer	org.any_openeai_enterprise.moa.jmsobjects.services.v1_0.Authorization org.any_openeai_enterprise.moa.jmsobjects.services.v2_0.Authorization	Yes	dev qa prod	Peter Day
Center for Health Discovery Portal Service	SyncPublisher	edu.emory.predictivehealth.moa.jmsobjects.chdportal.v1_0.hl7_oru edu.emory.predictivehealth.moa.jmsobjects.chdportal.v1_0.DicomReport	NA		Kevin Chen
RAPID Service	SyncPublisher	org.actsi.moa.jmsobjects.rapid.v1_0.AdministrativeGender org.actsi.moa.jmsobjects.rapid.v1_0.ContactType org.actsi.moa.jmsobjects.rapid.v1_0.Country org.actsi.moa.jmsobjects.rapid.v1_0.DegreeType1 org.actsi.moa.jmsobjects.rapid.v1_0.DegreeType2 org.actsi.moa.jmsobjects.rapid.v1_0.Ethnicity org.actsi.moa.jmsobjects.rapid.v1_0.Expertise org.actsi.moa.jmsobjects.rapid.v1_0.FundingOrganizationType org.actsi.moa.jmsobjects.rapid.v1_0.PersonnelType org.actsi.moa.jmsobjects.rapid.v1_0.PhsActivity org.actsi.moa.jmsobjects.rapid.v1_0.Race org.actsi.moa.jmsobjects.rapid.v1_0.Role org.actsi.moa.jmsobjects.rapid.v1_0.State org.actsi.moa.jmsobjects.rapid.v1_0.TrainingStatus org.actsi.moa.jmsobjects.rapid.v1_0.Training org.actsi.moa.jmsobjects.rapid.v1_0.ActsiOrganization org.actsi.moa.jmsobjects.rapid.v1_0.AprSummaryApplicantCharacteristics org.actsi.moa.jmsobjects.rapid.v1_0.AprSummaryDisadvantagedDisabled org.actsi.moa.jmsobjects.rapid.v1_0.AprSummaryResourceUsage org.actsi.moa.jmsobjects.rapid.v1_0.FundingOrganization org.actsi.moa.jmsobjects.rapid.v1_0.Person org.actsi.moa.jmsobjects.rapid.v1_0.ActsiProgram org.actsi.moa.jmsobjects.rapid.v1_0.ActsiService org.actsi.moa.jmsobjects.rapid.v1_0.Department org.actsi.moa.jmsobjects.rapid.v1_0.Division org.actsi.moa.jmsobjects.rapid.v1_0.FundingOrganization org.actsi.moa.jmsobjects.rapid.v1_0.InstitutionApprovalBoard org.actsi.moa.jmsobjects.rapid.v1_0.School org.actsi.moa.jmsobjects.rapid.v1_0.RequestStatus org.actsi.moa.jmsobjects.rapid.v1_0.ProjectYear org.actsi.moa.jmsobjects.rapid.v1_0.ServiceRequest org.actsi.moa.jmsobjects.rapid.v1_0.ResearchPublication org.actsi.moa.jmsobjects.rapid.v1_0.ResearchGrant org.actsi.moa.jmsobjects.rapid.v1_0.ResearchProject	NA		
eCOI Service	SyncConsumer	edu.emory.moa.jmsobjects.sponsoredprograms.v1_0.ExtramuralProposal edu.emory.moa.jmsobjects.identity.v1_0.Person com.clickcommerce.moa.jmsobjects.research.v1_0.IrbProposal com.oracle.peoplesoft.moa.jmsobjects.finance.v1_0.GM_AWARD com.oracle.peoplesoft.moa.jmsobjects.finance.v1_0.CUSTOMER	NA		Kelly Bray
AmcomEsdConnector	SyncPublisher	edu.emory.moa.jmsobjects.telecom.v1_0.Specialty edu.emory.moa.jmsobjects.facilities.v2_0.FacilitiesBuilding	NA		Kevin Chen
AMPUp	SyncConsumer SyncPublisher	Consumes: edu.emory.moa.jmsobjects.finance.v1_0.SmartKey edu.emory.moa.jmsobjects.identity.v2_0.FullPerson Publishes: com.americanmessaging.jmsobjects.finance.v1_0.SmartKeyLookup com.americanmessaging.moa.jmsobjects.identity.v2_0.PersonLookup	NA		Kevin Chen
HipaaAuditLog Service (HALS)	Point2Point Consumer SyncConsumer	Consumes: edu.emory.moa.jmsobjects.logging.v1_0.HipaaAuditLogEntry	Yes	dev qa	George Wang
Mppi Service	Point2Point Consumer SyncPublisher	Consumes org.actsi.moa.jmsobjects.study.v1_0.RearchSubject Publishes: org.actsi.moa.jmsobjects.study.v1_0.MasterPatientParticipantIdentity	Yes	dev	Circe Tsui

WebEase Service	Point2Point Consumer PubSub Consumer	Consumes: edu.emory.sph.moa.jmsobjects.webease.v1_0.Announcement edu.emory.sph.moa.jmsobjects.webease.v1_0.AuthenticUser edu.emory.sph.moa.jmsobjects.webease.v1_0.FrequentlyAskedQuestion edu.emory.sph.moa.jmsobjects.webease.v1_0.LocalizedText edu.emory.sph.moa.jmsobjects.webease.v1_0.LogEntry edu.emory.sph.moa.jmsobjects.webease.v1_0.Module edu.emory.sph.moa.jmsobjects.webease.v1_0.Page edu.emory.sph.moa.jmsobjects.webease.v1_0.PatientMedication edu.emory.sph.moa.jmsobjects.webease.v1_0.PatientMedicationEvent edu.emory.sph.moa.jmsobjects.webease.v1_0.PatientMedicationEventCount edu.emory.sph.moa.jmsobjects.webease.v1_0.PatientModuleStatus edu.emory.sph.moa.jmsobjects.webease.v1_0.PatientProfile edu.emory.sph.moa.jmsobjects.webease.v1_0.PatientSeizureDescription edu.emory.sph.moa.jmsobjects.webease.v1_0.PatientSeizureEvent edu.emory.sph.moa.jmsobjects.webease.v1_0.PatientSeizureEventCount edu.emory.sph.moa.jmsobjects.webease.v1_0.PatientSeizureType edu.emory.sph.moa.jmsobjects.webease.v1_0.PatientSurveyResponse edu.emory.sph.moa.jmsobjects.webease.v1_0.Phase edu.emory.sph.moa.jmsobjects.webease.v1_0.PossibleSurveyResponse edu.emory.sph.moa.jmsobjects.webease.v1_0.PrivacyPolicy edu.emory.sph.moa.jmsobjects.webease.v1_0.Rating edu.emory.sph.moa.jmsobjects.webease.v1_0.Section edu.emory.sph.moa.jmsobjects.webease.v1_0.SummaryReport edu.emory.sph.moa.jmsobjects.webease.v1_0.Survey edu.emory.sph.moa.jmsobjects.webease.v1_0.SurveyQuestion edu.emory.sph.moa.jmsobjects.webease.v1_0.TermsOfUse edu.emory.sph.moa.jmsobjects.webease.v1_0.TermsOfUseAgreement edu.emory.sph.moa.jmsobjects.webease.v1_0.UserAccount edu.emory.sph.moa.jmsobjects.webease.v1_0.UserFeedback edu.emory.sph.moa.jmsobjects.webease.v1_0.UserNotification edu.emory.sph.moa.jmsobjects.webease.v1_0.UserPermission edu.emory.sph.moa.jmsobjects.webease.v1_0.UserSecurityQuestion edu.emory.sph.moa.jmsobjects.webease.v1_0.UserSession edu.emory.sph.moa.jmsobjects.webease.v1_0.UserSupportRequest edu.emory.sph.moa.jmsobjects.webease.v1_0.ValidDeliveryMethod edu.emory.sph.moa.jmsobjects.webease.v1_0.ValidFrequency edu.emory.sph.moa.jmsobjects.webease.v1_0.ValidLocale edu.emory.sph.moa.jmsobjects.webease.v1_0.ValidMedication edu.emory.sph.moa.jmsobjects.webease.v1_0.ValidPattern edu.emory.sph.moa.jmsobjects.webease.v1_0.ValidPermission edu.emory.sph.moa.jmsobjects.webease.v1_0.ValidReferral edu.emory.sph.moa.jmsobjects.webease.v1_0.ValidRole edu.emory.sph.moa.jmsobjects.webease.v1_0.ValidSecurityQuestion edu.emory.sph.moa.jmsobjects.webease.v1_0.ValidSeizureType edu.emory.sph.moa.jmsobjects.webease.v1_0.ValidStressor edu.emory.sph.moa.jmsobjects.webease.v1_0.ValidTrigger edu.emory.sph.moa.jmsobjects.webease.v1_0.ValidUserFeedbackType edu.emory.sph.moa.jmsobjects.webease.v1_0.Announcement edu.emory.sph.moa.jmsobjects.webease.v1_0.Announcement	Yes	dev qa	Tod Jackson George Wang
Mtp Service	Point2Point Consumer	Consumes: edu.emory.surgery.moa.jmsobjects.massivetransfusionprotocol.v1_0.MtpCaseRecord edu.emory.surgery.moa.jmsobjects.massivetransfusionprotocol.v1_0.UserPasscode			Tod Jackson George Wang
Directory Service	Point2Point Consumer	Consumes: edu.emory.moa.jmsobjects.identity.v1_0.DirectoryPerson	Yes	dev qa prod	
Directory Internal View Service	Point2Point Consumer	Consumes: edu.emory.moa.jmsobjects.identity.v1_0.DirectoryPerson	Yes	dev	
Service Now Incident Service?	Point2Point Consumer	Consumes: com.service_now.moa.jmsobjects.servicedesk.v1_0.Incident	Yes	dev qa prod	
Emory Building Service	Point2Point Consumer	Consumes: edu.emory.moa.jmsobjects.facilities.v1_0.EmoryBuilding	Yes	dev qa	

Systems

Applications or systems for which integrations have been implemented to date are:

Systems	Data Custodians
PeopleSoft (Oracle) Financial System	Eddie Murphree
PeopleSoft (Oracle) Student Administration System (OPUS)	Beth Broyles
PeopleSoft (Oracle) Human Resources	Mary Smith

Blackboard	Kim Braxton
Emory Shared Data	Anne Marie Alexander
Service Now	Al Shelton
ExactTarget	Megan Turk
Advance Community at Emory (ACE) System (Sungard Advance)	Megan Turk
Sciquest	Edie Murpree
Emory Data Warehouse	Amy Dean
eCOI ConflictOfInterest	none (consumer)
Click Commerce	
Emory Mobile (Blackboard Mobile)	Beth Broyles
AMCOM	John Hawkins
MySoft	Becky Hancock
American Messaging Pager	John Hawkins
Directory Server	
Campus Map	
ACTSI RAPID Application	
IdentityService2	Mary Smith, Beth Broyles
Zabbix	Paul Petersen
ServiceAvailability	Paul Petersen
HipaaAuditLog Service (HALS)	George Wang
Rave	John Hawkins

Integrations

The analysis templates used to document and provide requirements for these integrations are available here for review and comment (a blank template can be found [here](#)). **These require Emory authentication.**

Integrations - Analysis Templates
AccountCategory
BlackBoard
Emory Mobile(BlackBoard Mobile)
Clinical Study
ConflictOfInterest
DataWarehouse
eResearch - <i>in progress</i>
ExactTarget
IdentityService
NetworkLocationService
PeopleSoftServiceFs
PeopleSoftServiceELMS

Sciquest
SmartKey
Thermo Nautilus (LIMS) - <i>in progress</i>
ServiceAvailability
MonitoringService Analysis Template
Rave

For an overview of the deployed ESB/SOA environments, see the [environment documentation](#) maintained by the UTS Integration Group. **These require Emory authentication.**

Web Services

Web Services Registry

- [Web Services Registry](#)

Web Services Documentation

[Web Services Documentation](#)

Reference Data

Reference data is frequently used support data. This is just a list of services and data listed above, but it is commonly used support data that many applications use frequently and we are listing these here for convenience. If you know of data that you use frequently in multiple applications, please list it here. Also, if you have a need for reference data that would be used in multiple applications, please list it here.

Reference Data Purpose	Example	Provider	Object and Operations	Implemented
Emory Public Directory Information	Need to query for information available in Emory's public directory. For example, provide a mobile application view of Emory directory data	Directory Service	DirectoryPerson.Query-Request	Yes (dev only)
Emory Private Directory Information	Need to query for information available in Emory's private directory	Directory Service	DirectoryPerson.Query-Request	No
Emory Employee Identity	Need to query for authoritative Emory Employee Identity information with identifiers and primary organizational affiliations in ESD. This query is typically performed with identifying information obtained from the local system or a directory service query.	Identity Service (ESD)	Employee.V2.Query-Request	Yes
Emory NetworkIdentity	Need to query for authoritative Emory Network Identity (both University and Healthcare) information with identifiers in ESD. This query is typically performed with identifying information obtained from the local system or a directory service query.	Identity Service (ESD)	NetworkIdentity.V1.Query-Request	Yes
Emory Person Identity	Need to query for authoritative Emory Identity information with identifiers and affiliations in ESD. This query is typically performed with identifying information obtained from the local system or a directory service query.	Identity Service (ESD)	Person.V2.Query-Request	Yes
Emory SponsoredPerson Identity	Need to query for authoritative Emory Sponsored Person information (sponsored for active directory access) with identifiers and sponsoring organizational affiliations in ESD. This query is typically performed with identifying information obtained from the local system or a directory service query.	Identity Service (ESD)	SponsoredPerson.V2.Query-Request	Yes
Emory Student Identity	Need to query for authoritative Emory Student information with identifiers and academic career in ESD. This query is typically performed with identifying information obtained from the local system or a directory service query.	Identity Service (ESD)	Student.V1.Query-Request	Yes

Emory FullPerson Identity	Need to query for the full set of authoritative Emory Identity information (Employee, NetworkIdentity, Person, SponsoredPerson, Student) for people with active accounts with identifiers and affiliations in ESD. This query is typically performed with identifying information obtained from the local system or a directory service query.	Identity Service2 (ESD)	FullPerson.V2. Query-Request	Yes
Emory SmartKey Information	Need to query for SmartKeys which allow telecommunications charges.	MySoftConnector	SmartKey. Query-Request	No (syncs only)

How to Start Integrating with ESB message objects

Consuming Messages

Decide What Data

- Look over the enterprise objects and see if they have the data required
- If the data is not sufficient, a work request will need to be opened in Service Now for the Integration Team.

Decide What Actions

- Look over the enterprise object page and verify all required actions are supported.
- If the actions supported is not sufficient, a work request will need to be opened in Service Now for the Integration Team.

Request Data Access

- Fill out a data access form and open a work request to be forwarded to the data custodian.
- [Data Access Procedures](#)
- Open work request in [Service Now](#)

Request Queue or Topic

- Fill out a Queue or Topic create form and open a work request to be forwarded to the ESB Administrators.
- [Sonic Access Request](#)
- Open work request in [Service Now](#)

Where to Access Data

- The following may exist already, and can be obtained from the Sonic Administrator, it may come from the request filled out above:
 - Sonic ID (Principal)
 - Sonic Password (Sonic Administrator will provide)
 - Sonic Connection URL (Sonic Administrator can will provide)

Sample Code

add detail here

More Information

add detail here

Publishing Messages to ESB

Under development