

MUCH MORE THAN I.T.

POSSIBILITY

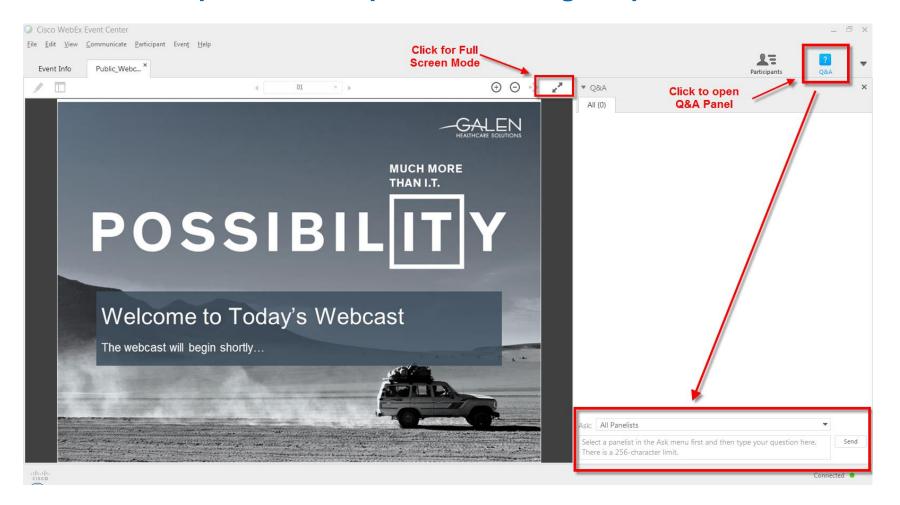
INTRODUCTION TO INTERSYSTEMS HEALTH CONNECT

June 8, 2016





Your phone has been automatically muted. Please use the Q&A panel to ask questions during the presentation!



Agenda



- Overview
- HealthShare
- HealthConnect
 - Management Portal
 - Production
 - Message Structure
 - HL7 Schema
 - Virtual Document Architecture
 - Message Processing
 - Message Routing
 - Data Transformations
 - ACKs/NACKs
 - Monitoring
 - Logs Message, Event, Business Rules
 - System Dashboard
- Demo
- Documentation

Poll Questions



POLL #1

Overview



InterSystems Caché/HealthConnect

- Server Platforms
 - Mac OS X 10.9-11
 - Microsoft Server, Vista, 7, 8, 10
 - Linux
 - Oracle 6.1, 7
 - Red Hat Enterprise 6, 7
 - SuSE 11, 12
 - Oracle Solaris 10, 11
- Cloud Platforms
 - MS Server 2008/2012 Amazon, MS Azure, Rackspace Open Cloud
 - Red Hat Enterprise Linux 6 Amazon
 - SuSE Linux Enterprise Server 11 Amazon, Azure
- Data/Message Standards
 - ASTM, EDIFACT, HL7, X12, CDA/CCD, CCDA, DICOM, XML, SOAP
- Connection Protocols
 - FTP, TCP, File, HTTP, Email, SOAP, SQL (JDBC & ODBC)

HealthShare





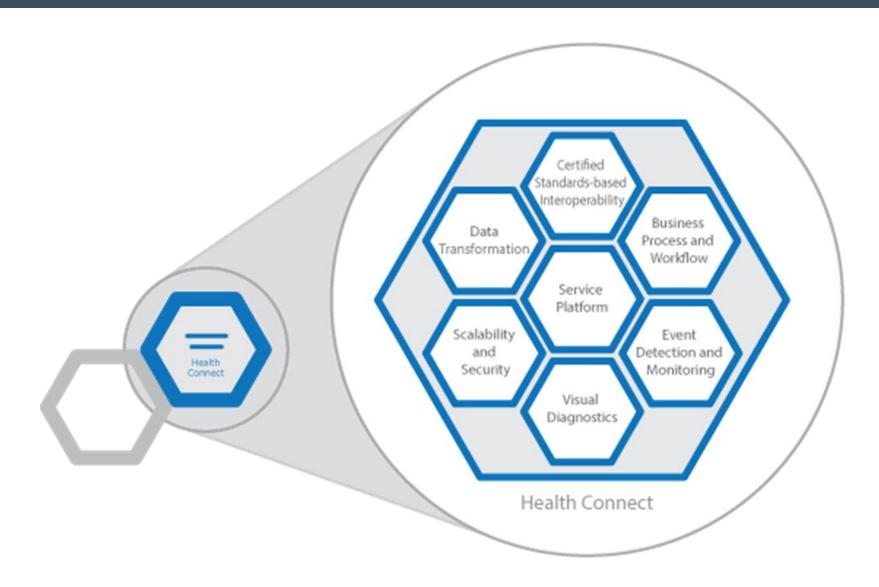


Packaged and add-on solutions



HealthConnect





Management Portal



Menu Home About Help Logout		
Welcome, SuperUser	Server: healthshare01 Namespace: ENSEMBLE Switch User: SuperUser Licensed to: Galen Healthcare Instance: SANDBOX	
View:		Search:
Home	Welcome to the Management Portal	
HealthShare	Please select one of the categories on the left or one of the options below Favorites Go to a favorite page	Did you know? You can search for items by ent pressing Enter.
DeepSee		
Ensemble	Recent Go to a recently viewed page	Links Pages you may be interested in
System Operation	Ensemble Monitor Message Viewer Rule Log	Samples Documentation Support
System Explorer	Event Log Data Transformation Builder Rule Editor	InterSystems Developer Connection
System Administration		

http://machine:port/csp/sys/UtilHome.csp

Production



▼ Informational Settings

Comment

Category Webinar

Class Name

Description

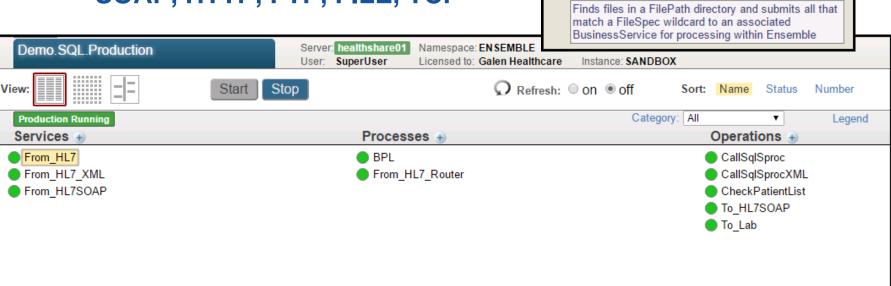
Adapter Class Name EnsLib.File.InboundAdapter

Adapter Description

EnsLib.HL7.Service.FileService

Business Components

- Business Services
- Business Processes
- Business Operations
- Adapters
 - SOAP, HTTP, FTP, FILE, TCP



HealthConnect

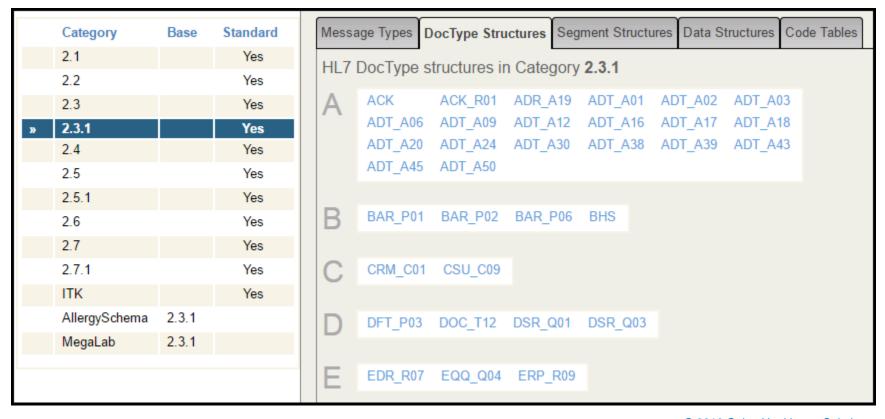


Message Structure

HL7 Schema



- Category (HL7 version)
- Structure
- DocType (Category:Structure)



Virtual Document

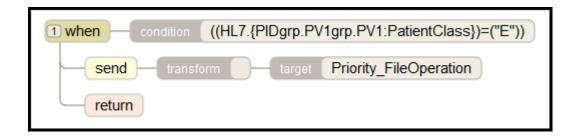


HL7 ADT_A12 Message - Id = 792 DocType = '2.5:ADT_A12', Message Type Category = '2.5' 'ADT message - Cancel transfer', 5 Segments

1	MSH ^~\& PAS ABC LSP ABC 20071031152829 _ ADT ^ A12 12363934 P 2.5 _ _ AL NE GBR
2	EVN A12 20081031152829
3	PID 1 _ ABC18 ^ _ ^ _ ^ ABC ^ MR ^ ABC _ Ensemble1 ^ THU ^ _ ^ _ ^ MS _ 19740805 F Vanzetti ^ Carl
4	PD1 _ _ Health Centre, Darwin Road, Cambridge, MA ^ GPPRC ^ P000000 G9999999 ^ Ledge ^ Sn ^ _ ^ _ ^ DR
5	PV1 1 ABC01M5 ^ _ ^ _ ^ _ ^ _ ^ _ ^ _ ^ _ ^ _ ^ _ ^

Virtual Document

- Parses Raw Content
- Virtual Properties



assign Set the value of a target property. View documentation Action set Property target.{PR1grp(1)} Property whose value will be set. Double-clicking or diagram will place that property in this field. Value source.{PR1grp(1)} Value to assign to the property. Double-clicking on a place that property in this field.

HealthConnect

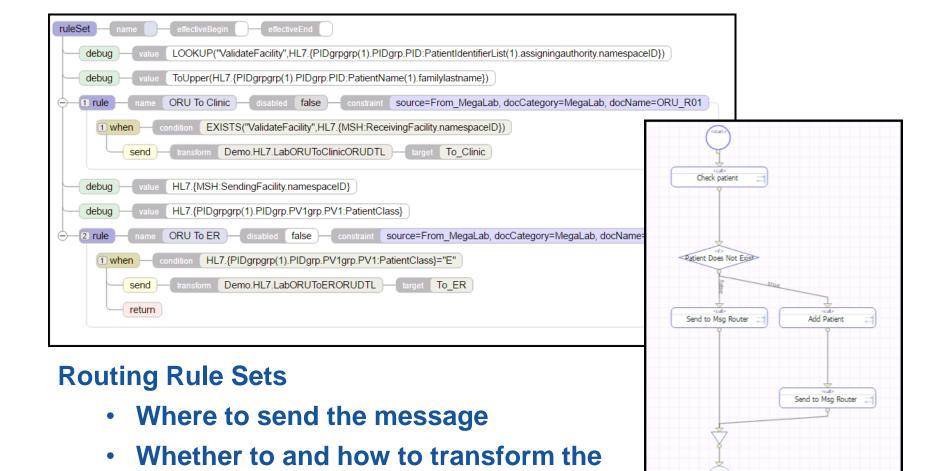


Message Processing

Routing Rules/BPL

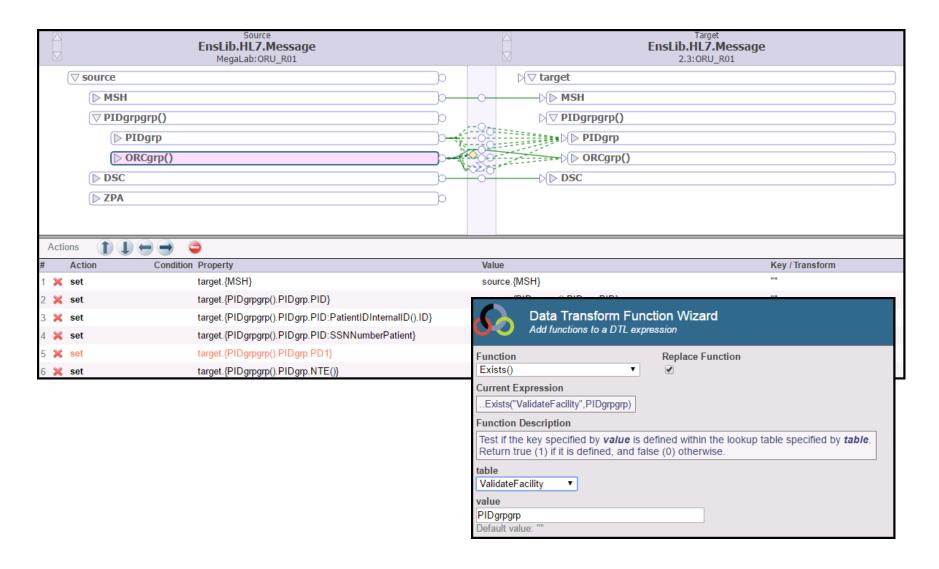
message





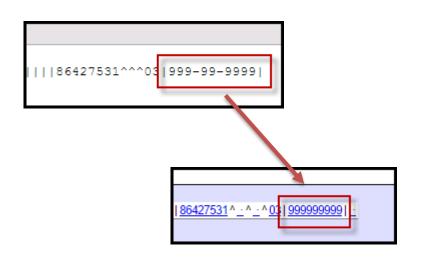
Data Transformation

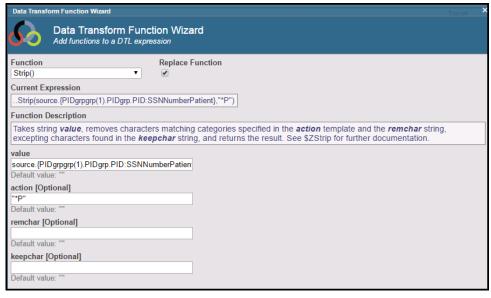


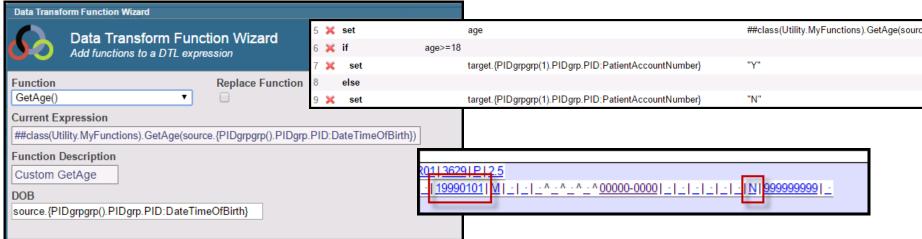


Data Transformation



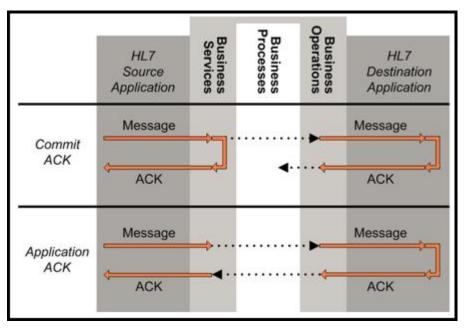






ACKs/NACKs



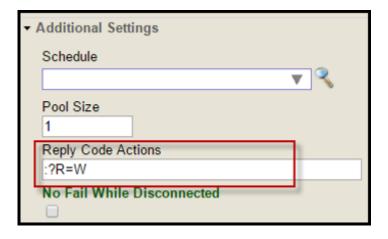


ACK Modes

- Never
- Application
- Immediate
- MSH-Determined

Reply Action Codes

- Log a warning
- Retry
- Suspend
- Disable the operation
- Fail with an error



HealthConnect

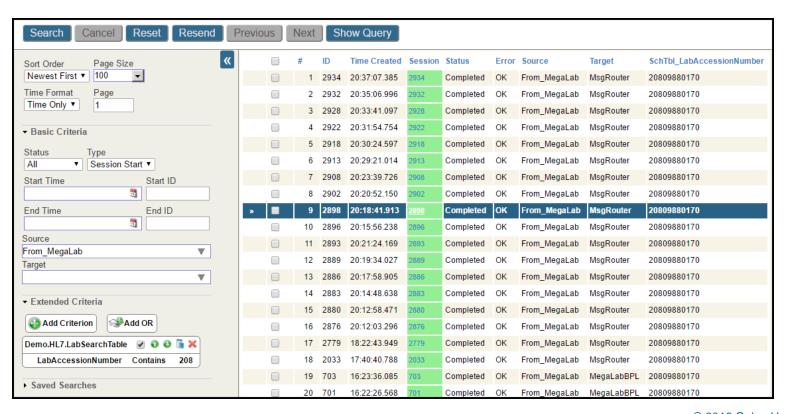


Monitoring

Message Viewer

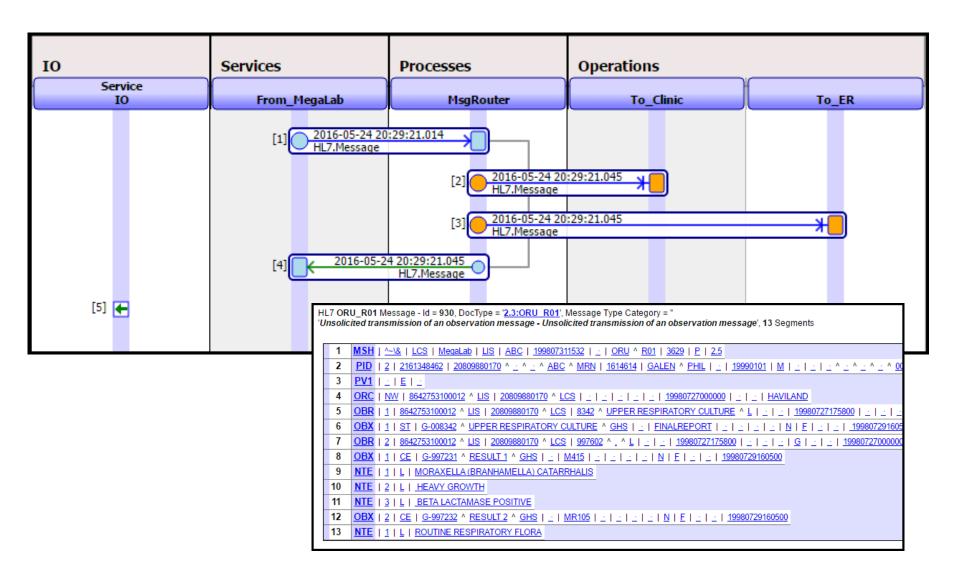


- View, Search and Resend Messages across multiple productions
- Extended Search Criteria
- Search Table Indexing



Message Trace





Event Log



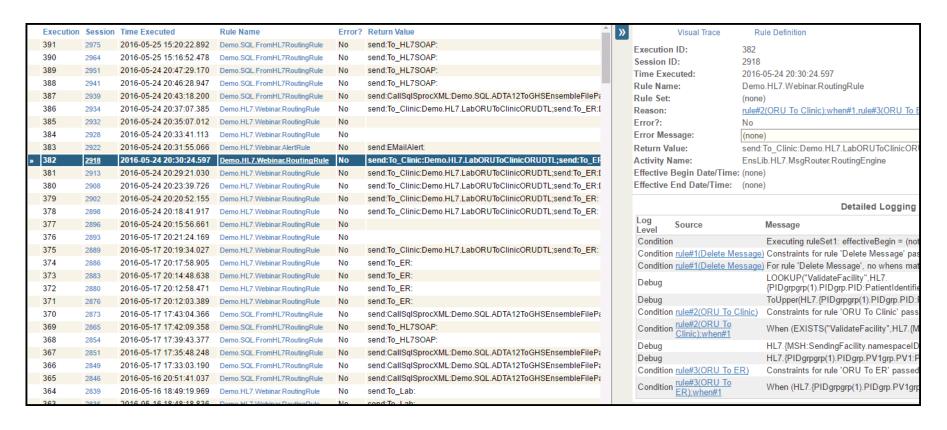
- Informational Entries
 - System-generated Events
 - Generated by a business
 host class
- Alerts, Warnings and Errors
 - Trace Messages (Debugging)

	Туре	ID	Time Logged	Session	Job	Source	Text	>>	ID:	5969
	Info	5974	2016-05-25 17:16:27.206		2032		Production 'Demo.SQL.Production' updated.	_	Type:	Error
	Info	5973	2016-05-25 17:16:27.167		2032		Production 'Demo.SQL.Production' updating		Text:	ERROR <ens>ErrProductionAlreadyRunning: Production</ens>
	Error	5972	2016-05-25 17:16:09.476		2032		ERROR <ens>ErrProductionAlreadyRunning: P</ens>			'Demo.SQL.Production' is already running
	Error	5971	2016-05-25 17:16:09.475		2032		ERROR <ens>ErrProductionAlreadyRunning: P</ens>		Lonned:	2016-05-25 17:15:49.970
	Error	5970	2016-05-25 17:16:09.475		2032		ERROR <ens>ErrProductionAlreadyRunning: P</ens>		Source:	
33	Error	5969	2016-05-25 17:15:49.970		2032		ERROR <ens>ErrProductionAlreadyRunning:</ens>		Session	
	Error	5968	2016-05-25 17:15:49.968		2032		ERROR <ens>ErrProductionAlreadyRunning: P</ens>		Job:	2032
	Error	5967	2016-05-25 17:15:49.967		2032		ERROR <ens>ErrProductionAlreadyRunning: P</ens>		Class:	Ens.Director
	Info	5966	2016-05-25 17:15:20.398		2032		Production 'Demo.SQL.Production' is up-to-date		Method:	StartProduction
l	Info	5965	2016-05-25 17:15:20.356		2032		Production 'Demo.SQL.Production' updating		Trace:	(none)
	Trace (user)	5964	2016-05-25 15:20:22.799	2975	4632	CheckPatientList	0000ABC123		Stack:	 \$\$^zGetErrorTrace+3 ^Ens.Util.Trace.1 +1
l	Info	5963	2016-05-25 15:20:02.638	2974	5020	Ens.ScheduleHandler	Production 'Demo.SQL.Production' is up-to-date			 DO^zLogNoTrace+10^Ens.Util.Log.1 +1 DO^zLog+2^Ens.Util.Log.1 +1
	Info	5962	2016-05-25 15:20:02.606	2974	5020	Ens.ScheduleHandler	Production 'Demo.SQL.Production' updating			DO^zLog+z^Elis.Otil.Log.1 +1 DO^zLogStatus+4^Ens.Util.Log.1 +1
	Info	5961	2016-05-25 15:20:02.606		628		Production 'Demo.SQL.Production' updated.			 \$\$^zStartProduction+79 ^Ens.Director.1 +2
	Info	5960	2016-05-25 15:20:02.593		4068	From_HL7SOAP	ConfigItem 'From_HL7SOAP' (EnsLib.HL7.Servi			 \$\$^zStartProduction+2 ^EnsPortal.StartStopFrame.1 \$\$^zOnPage+131^EnsPortal.StartStopFrame.1+1
	Info	5959	2016-05-25 15:20:02.534		628		Production 'Demo.SQL.Production' updating			• \$\$^zPage+9^EnsPortal.Template.standardPage.1+2
	Info	5958	2016-05-25 15:19:58.598	2973	5020	Ens.ScheduleHandler	Production 'Demo.SQL.Production' is up-to-date			 DO^CSPDispatch+517 ^%SYS.cspServer +2
l	Info	5957	2016-05-25 15:19:58.564	2973	5020	Ens.ScheduleHandler	Production 'Demo.SQL.Production' updating			DO^CSPDispatch+363 ^%SYS.cspServer +1 DO^SPSeconDescript 1 A CSP SeconDescript 1 +1
	Info	5956	2016-05-25 15:19:58.563		628		Production 'Demo.SQL.Production' updated.			 DO^zProcessRequest+1 ^%CSP.Session.1 +1 DO^Request+643^%SYS.cspServer2 +1
	Info	5955	2016-05-25 15:19:58.554		628		ConfigItem 'SOAPIn' (EnsLib.HL7.Service.SOAP			 DO^Request+21^%SYS.cspServer2 +1
	Info	5954	2016-05-25 15:19:55.772		628		Stopping job '3504' (SOAPIn)			 DO^zProcessRequest+1 ^%CSP.Request.1 +1 DO^css+38^%SYS.cspServer2 +1
	Info	5953	2016-05-25 15:19:55.730		628		Production 'Demo.SQL.Production' updating			• DO CSST30 // A3 13.CSp3eIVeIZ T1

Business Rule Log



- Log of routing rule activity
 - Which rule criteria each message was tested against
 - Whether or not the message matched the criteria
 - what happened as a result



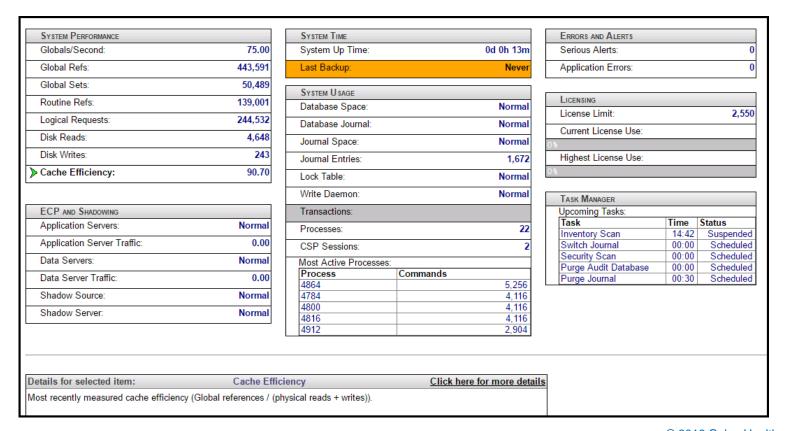
System Monitoring



Real-time status of key system indicators

- Performance
- System Up Time/Last Back Up
- Usage

- Alerts
- Licensing
- Task Manager



Poll Questions



POLL #2

HealthConnect - Demo

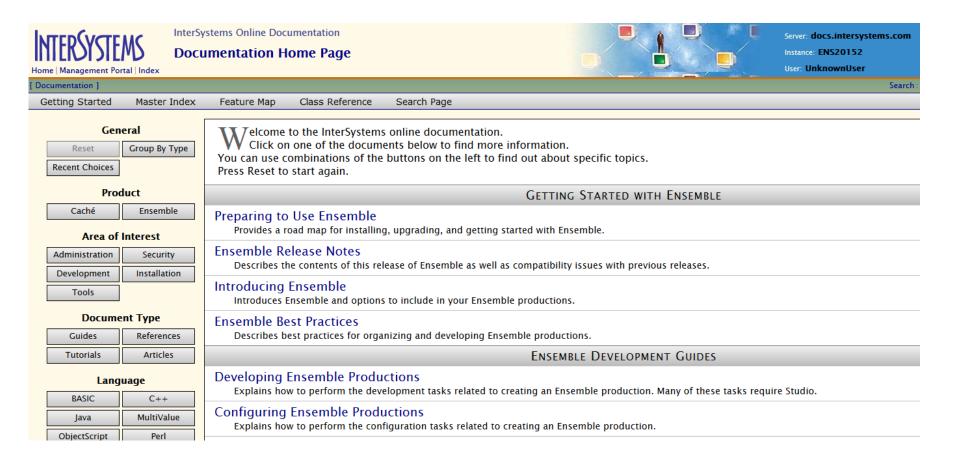


DEMO

HealthConnect - Documentation



http://docs.intersystems.com



Questions





SOLVING FOR TODAY. PREPARING FOR TOMORROW.



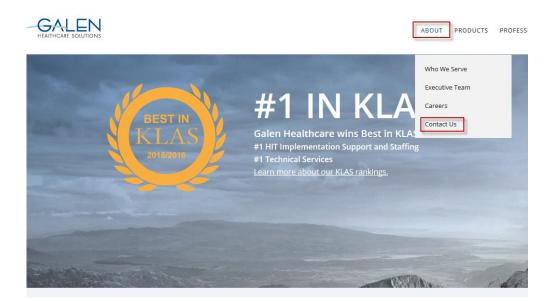
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