

Technical Story Number: TS011.01.1

Technical Story Name: Notification of Completed DBQ Submission

Priority: High

ClearQuest Number: DAS_CR330

Author: Sean Kenney/Java Developer

Story: As a notification subscriber, I want to receive a notification when an exam result has been stored with a status of 'Completed', so that the disability claims adjudication process can continue.

Revision History

Date	Version	Description	Author
11/07/2012	v0.01	Initial	Sean Kenney
11/26/2012	v0.02	Add architect feedback Add mepping tables Change the CR identifier Changed event topic to remove lens reference Fixed acceptance criteria numbers	Sean Kenney
11/26/2012	v0.03	Peer Review	Sean Kenney
11/27/2012	v0.04	Technical Writer Review 1	Nancy Burak
11/27/2012	v1.0	Approved	Cameron Moore
12/14/2012	v1.1	Changed TS004.06.01 to TS011.01.1 throughout and updated US011.01 to US011.01 per User Story name change Note: No content change	Nancy Burak
01/31/2013	V1.2	US011.01.01 will not be met, this requirement was based upon the original design.	Cam Moore

Reference Documentation

1. VLER DAS ICD, v1.02
2. User Story US011.01 Notify of Completed Status v2.0
3. Technical Story TS017, Retrieve Exam Results by Fac. ID and Date

Overview

This Technical Story describes the process for sending an event to one consuming application after a DBQ has been written to the database.

The following table lists the User Story Acceptance Criteria and their respective coverage by this Technical Story.

User Story Requirement ID	Description	Technical Story Coverage (Yes/No/Partial)
US011.01.01	VLER DAS enables consuming applications to subscribe to event notifications of which they choose to be made aware.	No
US011.01.02	VLER DAS receives an exam result with a status of 'Completed' and sends it to HDR for storage.	Yes
US011.01.03	VLER DAS generates a corresponding 'DBQ Status is Completed' event notification, which includes the Patient Information (First Name, Middle Name, Last Name, Date of Birth, ID, Assigning Authority, Assigning Facility).	Yes
US011.01.04	VLER DAS generates a corresponding 'DBQ Status is Completed' event notification, which includes the Document ID.	Yes
US011.01.05	VLER DAS generates a corresponding 'DBQ Status is Completed' event notification, which includes the DBQ Document Type.	Yes
US011.01.06	VLER DAS generates a corresponding 'DBQ Status is Completed' event notification, which includes the Creation Date (Date, Time, and Time Zone).	Yes
US011.01.07	VLER DAS generates a corresponding 'DBQ Status is Completed' event notification, which includes the VA Facility Information (Name, ID, Assigning Authority).	Yes
US011.01.08	VLER DAS generates a corresponding 'DBQ Status is Completed' event notification, which includes the Physician Information (First Name, Middle Name, Last Name, ID, Assigning Facility or Assigning Authority).	Yes
US011.01.09	VLER DAS generates a corresponding 'DBQ Status is Completed' event notification, which includes the SSN.	Yes
US011.01.10	VLER DAS generates a corresponding 'DBQ Status is Completed' event notification, which includes the Status of Exam Result.	Yes
US011.01.11	VLER DAS sends the 'DBQ Status is Completed' event notification to subscribers.	Yes

Actors

1. Business Transaction Service (BTS)
2. Consuming Application – (a VBA App - CAPRI, VBMS)
3. Producing Application – (CDS)

Preconditions

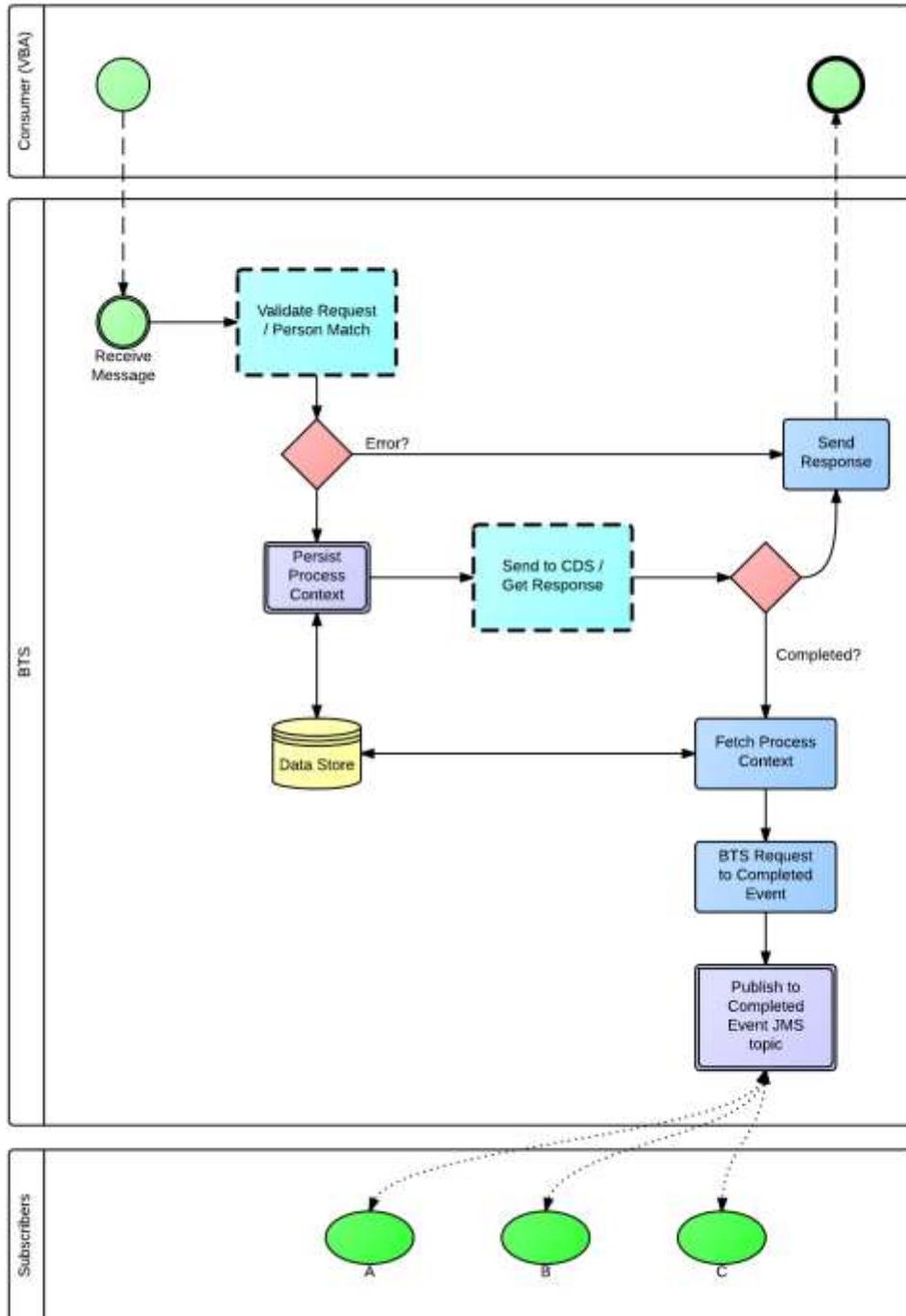
1. The following applications must be running:
 - a) Business Transaction Service (BTS)

- b) Producing application (CDS)
 - c) Consuming Application (a VBA App e.g. VBMS)
2. Each of the above applications have network accessibility.
 3. The consumer application is subscribed to the `jms/core/dbq/dbqCompletedEventTopic` topic.

Detailed Process Flow

1. The BTS DBQ Store process persists its process context, including the DBQ Write Request, before it is sent to CDS.
2. The BTS DBQ Store process receives a successful (status = Completed) DBQ write response from CDS.
3. The BTS DBQ Store process returns the response to its consumer.
4. Using the message id in the DBQ write response, BTS retrieves the BTS Store DBQ process context from the BTS database.
5. The DBQ Store process retrieves the DBQ Write Request from the process context.
6. The DBQ Store process transforms the DBQ Write response into a completed event notification.
7. The DBQ Store process publishes the response to the JMS topic `jms/core/dbq/dbqCompletedEventTopic`.

Process Diagram



Detailed Listing of Acceptance Criteria

Requirement ID	Description
TS011.01.1.01	BTS DBQ Store process stores the process context to the BTS database.
TS011.01.1.02	The BTS DBQ process publishes events to the <code>jms/core/dbq/dbqCompletedEventTopic</code> JMS topic only when the status equals 'Completed'.
TS011.01.1.03	The Completed event contains: Patient Information (First Name, Middle Name, Last Name, Date of Birth, ID, Assigning Authority).
TS011.01.1.04	The Completed event contains: Document ID
TS011.01.1.05	The Completed event contains: DBQ Document Type
TS011.01.1.06	The Completed event contains: Creation Date (Date, Time, and Time Zone).
TS011.01.1.07	The Completed event contains: VA Facility Information (Name, ID, Assigning Authority).
TS011.01.1.08	The Completed event contains: Physician Information (First Name, Middle Name, Last Name, ID, Assigning Facility or Assigning Authority).
TS011.01.1.09	The Completed event contains: SSN
TS011.01.1.10	The Completed event contains: Status of Exam Result

Appendix 1 Detailed Request to Event Mapping Table

Atom Feed	Value	Notes
atom:feed/title *	“DBQ Status is Completed”	
atom:feed/id *	clinicaldata:ClinicalData/patient/questionnaireResults/questionnaireResult/documentIdentifier/identity	
atom:feed/updated *	current date with time zone	
atom:feed/generator	“BTS v2.0.0.0”	
atom:feed/author	clinicaldata:ClinicalData/patient/questionnaireResults/questionnaireResult/author/practitioner/name/given name/middle and name/family	
atom:feed/link/@rel=self *	TBD	
atom:feed/link/@rel=alternate *	TBD	
...		<i>May include other fields defined in: cpExamsByFacilityCdsResponseToFirstPassAtomFeedTransformer.xsl</i>
Single Atom Entry	Value	Notes
atom:entry/title *	clinicaldata:ClinicalData/patient/questionnaireResults/questionnaireResult/documentType	
atom:entry/id *	clinicaldata:ClinicalData/patient/questionnaireResults/questionnaireResult/documentIdentifier/identity	
atom:entry/updated *	clinicaldata:ClinicalData/patient/questionnaireResults/questionnaireResult/dateCreated/literal	
atom:feed/author	clinicaldata:ClinicalData/patient/questionnaireResults/questionnaireResult/author/practitioner/name/given name/middle and name/family	
...		<i>May include other fields defined in: cpExamsByFacilityCdsResponseToFirstPassAtomFeedTransformer.xsl</i>

Preview Content	Value	Notes
<p>Document</p> <ul style="list-style-type: none"> • Creation Date • Type • ID • Exam Status 		<p>Use code in: <i>cpExamsByFacilityCdsResponseToFirstPassAtomFeedTransformer.xsl</i></p>
<p>Patient Information</p> <ul style="list-style-type: none"> • First, Middle and Last Name • DOB • ID • Assigning Authority 		<p>Use code in: <i>cpExamsByFacilityCdsResponseToFirstPassAtomFeedTransformer.xsl</i></p> <p>if Assigning Facility == "200SSA" then ID = SSN else ID = ICN</p>
<p>Physician Information</p> <ul style="list-style-type: none"> • First, Middle and Last Name • DOB • ID • Assigning Authority 		<p>Use code in: <i>cpExamsByFacilityCdsResponseToFirstPassAtomFeedTransformer.xsl</i></p>
<p>Facility Information</p> <ul style="list-style-type: none"> • Name • ID • Assigning Facility or Assigning Authority 		<p>Use code in: <i>cpExamsByFacilityCdsResponseToFirstPassAtomFeedTransformer.xsl</i></p>

* = required fields for atom feed