

CROWNWeb – Deterministic Patient Matching Unique SCF ID_CR_621/CR 1467

Is this a change to baselined requirement(s)? Yes No

A. Initial Change Request Information			
A-1 (To Be Completed by the Requirements Contractor on behalf of the Requestor)			
Title:	Deterministic Patient Matching	Version:	1.0
System Release:	5.0	Product:	CROWNWeb
Requirements Baseline Date:		CMS Program Lead:	
CMS Priority:	High	CMS ISG Project Manager:	Vicki Schlining
		Change Request Decision	
		Need By Date:	
XLC Lifecycle Release Phase:			
Requestor Name:	Primary:	Requirements Contractor	Edaptive Systems
	Secondary:	Program Lead:	Kevin Rodriguez
Requestor Phone #:	Primary:	Requirements Contractor	Edaptive Systems
	Secondary:	Project Lead:	Steve Sowden
Requestor Email:	Primary:	Date Requested:	
	Secondary:	Requirements Contractor	Name:
Requestor Organization:	Primary:	Point of Contact:	Phone #:
	Secondary:		Email:
A-2 (To Be Completed by the Requirements Contractor)			
Change Type: <input type="checkbox"/> Documentation Only Change <input checked="" type="checkbox"/> Program Change <input type="checkbox"/> Technical Change			
Change Reason for requirements that have not been baselined:			
x New Functionality <input type="checkbox"/> Remove Functionality <input type="checkbox"/> Update Functionality			
Change Reason for requirements that have been baselined:			
<input type="checkbox"/> Clarify Requirement <input type="checkbox"/> Incorrect Requirement <input type="checkbox"/> Update to Match Coded Functionality <input type="checkbox"/> Add Requirement <input type="checkbox"/> Remove Requirement			
A-3 (To Be Completed by the Requirements Contractor)			
Description of Change:			
<i>Specify the item(s) being changed and provide a detailed description of the requested change. Give a detailed explanation of the reason for change (including citing the legislation or policy instigating the change if applicable).</i>			
To improve Patient Near Matching algorithm by the application of a deterministic approach, utilizing Soundex methodology.			

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ADO Initial Assessment: <i>Provide supporting comments to assist with the prioritization decision regarding the change.</i>	
A-6 (To Be Completed by Infrastructure)	
Rough Order of Magnitude:	0.
Infrastructure Initial Assessment: <i>Provide supporting comments to assist with the prioritization decision regarding the change.</i>	
A-7 (To Be Completed by V&V)	
Rough Order of Magnitude:	1080
V&V Initial Assessment: <i>Provide supporting comments to assist with the prioritization decision regarding the change.</i>	
A-8 (To Be Completed by Program-specific Contractors or Other Stakeholders))	
Rough Order of Magnitude:	N/A.

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Initial Assessment:

Provide supporting comments to assist with the prioritization decision regarding the change.

B. Initial Decision to Proceed to Requirements (To Be Completed by the Requirements Contractor)	
Initial Decision Date:	
<input checked="" type="checkbox"/> Approve <input type="checkbox"/> Deny <input type="checkbox"/> Defer to Future Release <input type="checkbox"/> Resubmit CR with Revisions	Comments:

Date LOE due to the Requirements Contractor:	
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E. Actual Impact of Change (To Be Completed by Infrastructure)	
Level of Effort:	0
Indicate if the change will impact one or more of the below area(s): <input type="checkbox"/> Performance (includes ITF consideration) <input type="checkbox"/> Security Impact / SCA <input type="checkbox"/> Hardware / Software <input type="checkbox"/> Environment (specify all impacted environments) _____ _____ _____ <input type="checkbox"/> Schedule <input type="checkbox"/> Other _____	Details / Comments:

F. Actual Impact of Change (To Be Completed by V&V)	
Hours Spent Determining Level of Effort:	
Level of Effort:	144 hours
Indicate if the change will impact one or more of the below area(s): <input type="checkbox"/> Security Impact / SCA <input type="checkbox"/> Hardware / Software <input type="checkbox"/> Test Cases <input type="checkbox"/> Data <input type="checkbox"/> Schedule <input type="checkbox"/> Other _____	Details / Comments:

G. Actual Impact of Change (To Be Completed by Program-specific Contractors or Other Stakeholders)	
Hours Spent Determining Level of Effort:	

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G. Actual Impact of Change (To Be Completed by Program-specific Contractors or Other Stakeholders)	
Level of Effort:	N/A
Indicate the impacted area(s) below: <input type="checkbox"/> Specify, _____ <input type="checkbox"/> Specify, _____ <input type="checkbox"/> Specify, _____	Details / Comments:

H. Final Decision to Proceed to Requirements (To Be Completed by the Requirements Contractor)	
Final Decision Date:	
<input type="checkbox"/> Approve <input type="checkbox"/> Deny <input type="checkbox"/> Defer to Future Release <input type="checkbox"/> Resubmit CR with Revisions	Comments:

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I. User Stories							
Serena User Story ID #	Theme	Topic	User Role	Action	Business Benefit	Acceptance Criteria	Existing Requirement #s
#01			CROWNWeb User (EDI Submitter/SUI)	Be able to match on patient's first name using the standard Soundex phonetic algorithm.	If a mismatch is found on the first name (Example: Submitted: First Name = "Tracy" vs CROWNWeb: First Name = "Tracey") and the resulting standard Soundex codes match, then this will be considered an exact match.	<ol style="list-style-type: none"> 1. The prerequisite rule applies (see Business Rules). 2. With the Soundex code applied to both the CROWNWeb First Name data field and the incoming submitted First Name data field, if the resulting Soundex codes for the CROWNWeb and submitted data match, this will be considered an exact match. 	
#02			CROWNWeb User (EDI Submitter/SUI)	Be able to match on patient's last name using the standard Soundex phonetic algorithm.	If a mismatch is found on the last name (Example: Submitted: Last Name = "Smith" vs CROWNWeb: Last Name = "Smyth") and the resulting standard Soundex codes match, then this will be considered an	<ol style="list-style-type: none"> 1. The prerequisite rule applies (see Business Rules). 2. With the Soundex code applied to both the CROWNWeb 	

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I. User Stories							
Serena User Story ID #	Theme	Topic	User Role	Action	Business Benefit	Acceptance Criteria	Existing Requirement #s
					exact match.	Last Name data field and the incoming submitted Last Name data field, if the resulting Soundex codes for the CROWNWeb and submitted data match, this will be considered an exact match.	
#03			CROWNWeb User (EDI Submitter/SUI)	Be able to match a patient when first and last names have been reversed.	If the mismatch is identified as being the reversal of the first and last names (Example: Submitted: First Name = "Doe", Last Name = "John" vs CROWNWeb: First Name = "John", Last Name = "Doe"), then this will be considered an exact match.	<ol style="list-style-type: none"> 1. The prerequisite rule applies (see Business Rules). 2. If the submitted First Name and Last Names are identified as having been reversed and the correctly aligned names match the CROWNWeb data, then this 	

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I. User Stories							
Serena User Story ID #	Theme	Topic	User Role	Action	Business Benefit	Acceptance Criteria	Existing Requirement #s
						will be considered an exact match.	
#04			CROWNWeb User (EDI Submitter/SUI)	Be able to match a patient on the month and year of the DOB.	If the mismatch is identified as being the Date of Birth (Example: Submitted: Date of Birth = "06/13/1982" vs CROWNWeb: Date of Birth = "06/14/1982"), the day of birth can be ignored as long as the month and year of birth are a match. This will be considered an exact match.	<ol style="list-style-type: none"> 1. <i>The prerequisite rule applies (see Business Rules).</i> 2. Day of birth can be ignored and an exact match can be assumed if a match is found on month and year only. 	
#05			CROWNWeb User (EDI Submitter/SUI)	Be able to match a patient when the first or last name is contained within the other name value.	If the mismatch is identified as the existing first or last name is contained within the Other Name, then this should be an exact match. (Example: Submitted: Last Name = "Jones Smith" vs CROWNWeb: Last Name = "Jones").	<ol style="list-style-type: none"> 1. The prerequisite rule applies (see Business Rules). 2. Other Name is defined as the longer of the name fields when comparing submitted data against CROWNWeb data. Example: 	

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I. User Stories							
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						<p>Submitted First Name = "Gregory", CROWNWeb First Name = "Greg".</p> <p>Submitted First Name is considered to be the Other Name.</p> <p>3. If the First/Last Name is contained within the Other Name, then this is to be considered an exact match.</p> <p>4. Test can only be performed on one of the name fields. If the test is performed on the First Name field and a match found, then the Last</p>	

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I. User Stories							
Serena User Story ID #	Theme	Topic	User Role	Action	Business Benefit	Acceptance Criteria	Existing Requirement #s
						Name cannot have the test performed on it and must be an explicit match against the incoming submitted data.	
#06			CROWNWeb User (EDI Submitter/SUI)	Be able to match a patient after stripping special characters from the name values.	If, following the stripping of special characters, submitted and CROWNWeb patient first and last names match, then this should be considered an exact match. (Example: Submitted: Last Name = "Jones Smith" vs CROWNWeb: Last Name = "Jones-Smith").	<ol style="list-style-type: none"> 1. <i>The prerequisite rule applies (see Business Rules).</i> 2. Once special characters have been stripped from both the CROWNWeb and the incoming submitted data fields, if there is a match, then this is to be considered an exact match. 3. Special characters include spaces, periods, 	

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I. User Stories							
Serena User Story ID #	Theme	Topic	User Role	Action	Business Benefit	Acceptance Criteria	Existing Requirement #s
						apostrophes, hyphens and special foreign characters (such as found in the name Inés).	

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J. Business Rules				
Business Rule ID #	Theme	Topic	Business Rule	Existing Requirement #
BR -1	Patient Matching	-	Prerequisite rule for all tests: At least one of the numeric identifiers, Social Security Number (SSN) or Medicare beneficiary's identification number (HICNUM), is an explicit match and all other populated identifiers match.	All
BR -2	Patient Matching	-	The CROWNWeb data takes precedence over the submitted batch data.	All
BR -3	Patient Matching	Matching Rules	The six matching rules are independent of one another.	All
BR -4	Patient Matching	Secondary Merged Patients	Secondary merged patients are to be excluded from the matching algorithm. Submitted patients must have the numeric identifiers matching the primary patient.	All

K. HCQIS Software Change Form Version Control			
Version Number:	Date:	Author:	Description of Change:
0.11	3/14/2014	PMBR	Updated Section A so that ROM is requested in hours instead of "low, medium, high"
0.12	06/09/2014	PMBR	Added: Requirements Complete Date, Date ROM due to PMBR, Date LOE due to PMBR
0.13	10/17/2014	PMBR	Updated all sections based on 10/09/2014 ISG Requirements Change Management JAD
0.14	11/04/2014	PMBR	Updated all sections based on 11/03/2014 review with ISG, PMBR, DECC, and Infrastructure stakeholders
1.0	11/18/2014	PMBR	Final version