

The graphic features a large blue puzzle piece on the left, with several other blue puzzle pieces floating in the air to its right. The pieces are rendered in a 3D style with shadows, giving them a sense of depth and movement. The background is a light blue gradient with a white circular glow behind the floating pieces.

CSC

Field Sharing Between SPIRIT and PIMS

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Purpose of Document	The Mississippi WIC Clinical and Food Management System shares specific participant demographic information with the state's Public Health Information Management System (PHIMS). Mississippi intends to continue sharing similar information between SPIRIT and their new Patient Information Management System (PIMS). This document identifies the fields to be shared between SPIRIT and the new PIMS, data requirements, validation requirements and business practice such that the state may incorporate requirements into the state's Request for Proposal (RFP) for the procurement of the new PIMS.



Document Revision History

Version	Date	Author	Description
1.0	08/22/2012	Jennifer Saunders	Initial Creation



1. Overview

The Mississippi WIC Clinical and Food Management System shares specific participant demographic information with the state's Patient Health Information Management System (PHIMS). Mississippi intends to continue sharing similar information between SPIRIT and their new Patient Information Management System (PIMS). Mississippi prefers this to be a real-time data sharing process. However, initiating a call in SPIRIT to create a file with the updated data would require a code change. The exchange of data will be completed using an interface between the SPIRIT database and the new PIMS. The frequency and timing of the data sharing will be determined by the design of that interface and not part of the SPIRIT system. PIMS will pull data from the SPIRIT database to update PIMS records and will push data to the SPIRIT database to update SPIRIT records.

SPIRIT is able to store an external ID and stores the date and time stamp of when records are modified. PIMS will use the external ID to link the SPIRIT and PIMS records. Converting the PIMS ID to SPIRIT will be included in the data conversion JAD sessions. PIMS will use the modify date in SPIRIT to determine if a data change has occurred and initiate and complete the data sharing process.

Mississippi will provide the fields currently being shared between their legacy WIC system and current PIMS for CSC review. CSC will provide the SPIRIT definitions for each field and the data validations necessary to prevent bad data from entering SPIRIT as well as to minimize additional work by clinic staff due to data errors.

2. CSC Recommendations

1. CSC recommends that the information in this document or a summarization of the information as deemed appropriate by Mississippi be used in the RFP for the new PIMS; and that further details be discussed and documented as part of the JAD and or Data Conversion discussions. CSC will be on-site for JAD and Data Conversion discussions early in the Mississippi WIC project.
2. Each SPIRIT table contains a field for the user who modified the record and a date/time stamp for when the modification was made. These fields are the ModifyUserID and ModifyDTTM field. The MS PIMS interface needs to "stamp" each record being updated with a unique user ID and the date/time of the update. This will assist with knowing how the data was entered into the system. The conversion to SPIRIT needs to include the PIMS user ID in the list of users to prevent errors in the application where the name of the last person to modify a record is displayed.
3. The SPIRIT Member table has a field for storing a unique ID from external systems. It is on the MEMBER table, is named ExternalID and is not viewable from within the SPIRIT user interface. CSC recommends that ExternalID be used to store the participant's unique PIMS identifier to facilitate linking the SPIRIT record to the PIMS record. Further discussion may be necessary during Data Conversion JAD sessions regarding the PIMS ID and the SPIRIT StateWICID.
4. When new participants are added to SPIRIT the interface creates multiple database records to support the certification and data entry process in addition to creating the demographic records. These tables are only created at prescreening and critical to the clinic's ability to work with the new record. New participants to SPIRIT need to be created via the SPIRIT prescreening process to ensure the proper creation of these support records. Thus, PIMS interface should not include the creation of new MEMBER records.
5. The new SPIRIT records are created with the ExternalID set to Null. For Mississippi this means that the new MEMBER record will not have a PIMS ID. The PIMS interface needs to include a process to search SPIRIT for records with a NULL ExternalID, a process to map the SPIRIT record to the correct PIMS record and to update SPIRIT with the appropriate PIMS ID.
6. Address information is saved at the household level, meaning that individuals assigned to the same household in SPIRIT share one physical address and one mailing address. Whether to share the physical address and or the mailing address will need to be determined. Also, if PIMS stores the addresses by individual instead of by household, consideration of which family member's address to share with SPIRIT is necessary, particularly if there is the possibility that individual addresses will vary across household members.



7. SPIRIT tracks changes made to the Household table which stores the family's physical and mailing addresses. When the PIMS interface updates any or multiple address fields in SPIRIT, PIMS needs to create a history record as well.
8. SPIRIT also stores the history of participant transfers between clinics. If the PIMS field "Patient Facility" refers to the WIC clinic, the PIMS interface should create a transfer history record when changes are made to the "Patient Facility" field.
9. Validation of the data coming from PIMS should be performed before it is stored in SPIRIT.
10. The shared fields should be reviewed during the SPIRIT Data Conversion JAD sessions to specifically review additional considerations.

3. Fields Shared between Systems

Mississippi provided the following fields shared between their legacy WIC system and current system, PHIMS.

- Auto assigned unique ID
- Contact Individual (Y or N)
- Last Name
- First Name
- Middle Initial
- Vaccination (if under 19 years)
- Address
- City
- State
- Zip
- Dob
- Sex (M or F)
- Race
- Ethnic
- SSN
- Patient Facility*
- Multiple Birth* (1,2,3,4 etc...)
- Language*

*requires information entered when relates to other entries.

Additional questions were sent to MSDH for further clarification of the PIMS fields.

1. Auto assigned unique ID
 - Question(s): Is this the unique PIMS ID? Does the current WIC Clinical Certification System use the PIMS ID or is there a unique WIC Clinical Certification ID as well?
 - MS Response: The unique PIMS ID is auto assigned in the system. I'm not sure if there is a WIC certification ID in PIMS. I don't believe so at this time.
2. Contact Individual (Y or N) :
 - Question(s): Is this an indicator that the individual has approved being contacted in general or for a specific reason such as for appointment reminders? Auto-dialer? Other?
 - MS Response: Correct



3. Vaccination (if under 19 years):
 - Question(s): What type of information is being passed? Date and vaccination name? Current vs. past due?
 - MS Response: None. The old system was set up to capture Immunizations but the MSDH now has a separate Imm Registry that will be interfaced to the new PIMS.
4. Address
 - Question(s): Is County collected in PIMS now?
 - MS Response: Yes
5. Patient Facility*
 - Question(s): Would this be the clinic? ID or Name?
 - MS Response: There is a code used now for where the patient came from or resides. This can be mapped if still used in the future.
6. Multiple Birth* (1,2,3,4 etc...)
 - Question(s): Is this the number of infants for the pregnancy?
 - MS Response: Correct
7. Address (all fields)
 - Question(s): SPIRIT allows the entry of a physical address and a separate mailing address. Is the PIMS address a physical or a mailing address?
 - MS Response: PIMS has and will have the ability to capture both.
8. Language
 - Question(s): For Language, SPIRIT allows the entry of the spoken and written language for the household. Does the PIMS Language field refer to written or spoken?
 - MS Response: Either



4. SPIRIT Information for Shared Fields

**Information shared is for the physical address and not the mailing address. Mailing address has different validations and can be discussed during JAD/Data Conversion if MS needs this to be shared.

***Should map the agency ID as well even if the clinic IDs don't repeat. For example agency 1 and agency 2 both have a clinic 99. To know the physical location, SPIRIT would also need the agency ID.

Current PIMS Fields	Comment	Corresponding SPIRIT Field	Screen Name	SPIRIT Table Name	SPIRIT Column Name	Field Validation	ModifyUserID & ModifyDTTM
Auto assigned unique ID		N/A	N/A	Member	ExternalID	Varchar(30)	Yes
Contact Individual (Y or N)	Per the MS response to questions, this is an indicator that the individual has given permission to be contacted in general or for a specific reason such as for appointment reminders such as an Auto-dialer. SPIRIT does not have a comparable field thus it cannot be shared						
Last Name		Last Name	Demographics	Member	LastName	Varchar(25) Allows alphabetic and special characters. Special characters are limited to the following: period (.), hyphen (-), apostrophe ('), and comma (,). Numeric characters are not allowed. The maximum size of the text box is twenty-five (25) characters.	Yes
First Name		First Name	Demographics	Member	FirstName	Varchar(20) Allows alphabetic and special characters. Special characters are limited to the following: period (.), hyphen (-), apostrophe ('), and comma (,). Numeric characters are not allowed. The maximum number of characters that can be entered in the text box is twenty (20) characters.	Yes



Current PIMS Fields	Comment	Corresponding SPIRIT Field	Screen Name	SPIRIT Table Name	SPIRIT Column Name	Field Validation	ModifyUserID & ModifyDTTM
Middle Initial		MI	Demographics	Member	MiddleInitial	Char(1) Allows alphabetic characters only. Numeric and special characters are not allowed. The maximum number of characters that can be entered in the text box is one (1) character	Yes
Vaccination (if under 19 years)	SPIRIT Allows the user to enter the immunization information. However, CSC recommends this particular field be discussed during JAD/Data Conversion sessions.	Not Provided at this time					
Address**	Address changes are recorded in the HouseholdHistory table. HouseholdHistory also uses CreateUserID and CreateDTTM	Address (physical)	Demographics	Household	Address	Varchar(50) Alphabetic, numeric, and special characters are allowed. Special characters are limited to the following: period (.), comma (,), pound sign (#), hyphen (-), forward slash (/), ampersand (&), and apostrophe ('). The maximum number of characters that can be entered in the text box is fifty (50) characters. Member.HouseholdID = Household.HouseholdID	Yes
City**	For the Physical address, SPIRIT LocalMunicipality table will need to correspond to the PIMS data as best as possible. PIMS will need to	City (physical)	Demographics	Household	LocalMunicipalityID	Varchar(4) Controlled by the LocalMunicipality table. Member.LocalMunicipalityID = LocalMunicipality.LocalMunicipalityID	Yes



Current PIMS Fields	Comment	Corresponding SPiRiT Field	Screen Name	SPiRiT Table Name	SPiRiT Column Name	Field Validation	ModifyUserID & ModifyDTTM
	update with the appropriate ID.						
State **	SPiRiT and PIMS will need to correspond with one another.	State (physical)	Demographics	Household	StateCD	Varchar(2) Allows alphabetic characters only. Numeric and special characters are not allowed. The maximum size of the text box is two (2) characters. StateCD should be in the COUNTYCITYBYZIP table Household.StateCD = COUNTYCITYBYZIP.STATECD	Yes
Zip**		ZIP (physical)	Demographics	Household	ZIPCode	Varchar(9) Allows numeric characters only. Alphabetic and special characters are not allowed. Minimum length is nine (9) characters. If the four-character extension is not entered, the extension must be populated with zeros automatically. ZIP code should be in the COUNTYCITYBYZIP table Household.ZIPCode = COUNTYCITYBYZIP.ZIPCode	Yes



Current PIMS Fields	Comment	Corresponding SPiRiT Field	Screen Name	SPiRiT Table Name	SPiRiT Column Name	Field Validation	ModifyUserID & ModifyDTTM
Dob	If the value of the Date of Birth calendar control is invalid for the age of the selected WIC Category using the Age Definition table, the system displays the E0066 standard error message to the user.	Birth Date	Demographics	Member	DateOfBirth	Datetime Member.WICStatus = AgeCategory.WICStatus Infant Agecategory.WICStatus = I current system date 364 days previous to current system date (365 if spanning a leap year) Child AgeCategory.WICStatus = C one (1) year previous to current system date Value set for State business rule MAXIMUMCHILDAGE previous to current system date Pregnant AgeCategory.WICStatus = P Value set for State business rule MinimumWomanAge previous to current system date Value set for State business rule MAXIMUMWOMANAGE previous to current system date Breastfeeding AgeCategory.WICStatus = B Value set for State business rule MinimumWomanAge previous to current system date Value set for State business rule MAXIMUMWOMANAGE previous to current system date Non-breastfeeding AgeCategory.WICStatus = N Value set for State business rule MinimumWomanAge previous to current system date Value set for State business rule MAXIMUMWOMANAGE previous to current system date	Yes



Current PIMS Fields	Comment	Corresponding SPiRiT Field	Screen Name	SPiRiT Table Name	SPiRiT Column Name	Field Validation	ModifyUserID & ModifyDTTM
Sex (M or F)	Consideration is needed for whether changing the Gender for Women participants (Pregnant, Breastfeeding and Nonbreastfeeding categories) should be allowed.	Gender	Demographics	Member	Gender	Varchar(1) If Member.WICStatus = P, B or N, the value must be Female.	Yes
Race Ethnic	SPiRiT stores the 3-digit Race/Ethnicity code. See RaceEthnicity Reference Mapping tab for translations.	Race/Ethnicity	Demographics	Member	RaceEthnicity	Varchar(3) Member.RaceEthnicity = RaceEthnicity.WICRaceEthnicityCD	Yes
SSN	The control is visible and enabled when: The HIDESSN business rule is set to "N". Thus, if the state wishes users to be able to enter and or view the SSN, the HIDESSN business rule will need to be set to "Y".	SSN	Demographics*	Member	SSN	Varchar(9) Numeric characters only. Alphabetic and special characters are not allowed. A partial entry is not allowed thus the minimum number of characters required is nine (9).	Yes



Current PIMS Fields	Comment	Corresponding SPIRIT Field	Screen Name	SPIRIT Table Name	SPIRIT Column Name	Field Validation	ModifyUserID & ModifyDTTM
Patient Facility***	The agency and clinic are both displayed or printed throughout the SPIRIT system. PIMS should include the agency ID when updating the participant's clinic assignment.	Clinic ID***	Demographics	Member	AgencyID and ServiceSiteID	Varchar(3) Member.AgencyID = Agency.AgencyID VarChar(3) Member.ServiceSiteID = ServiceSite.ServiceSiteID	Yes
Multiple Birth* (1,2,3,4 etc...)	SPIRIT does not have a field for the number of infants born of a pregnancy. The Number of infants will have to be derived from the number of postpartum infant records tied to the particular pregnancy. We recommend this be further discussed during the JAD/Data Conversion sessions.	Not Provided at this time					



Current PIMS Fields	Comment	Corresponding SPiRiT Field	Screen Name	SPiRiT Table Name	SPiRiT Column Name	Field Validation	ModifyUserID & ModifyDTTM
Language	<p>SPiRiT allows the user to indicate if this language is written and or spoken. If this is not specified in PIMS, Mississippi will need to identify a default value. Restricted to list available in Reference Dictionary. Mississippi will provide the list of language options during the data conversion process.</p>	Language 1	Demographics - AdditionalInfo2 tab	Household	Language1	<p>Varchar(1) For name of language: Household.Language1 = ReferenceDictionary.ExternalID where ReferenceDictionary.Category = 'Language'</p> <p>For written: Char(1) Household.Lanuage1Read = 'Y'</p> <p>For spoken: Char(1) Household.Lanuage1Spoken = 'Y'</p>	Yes



5. RaceEthnicity Table Data for Reference

The WICRaceEthnicityCD is stored on the Member table. This table should be used to translate the PIMS Race and Ethnicity fields into the 3-digit WICRaceEthnicityCD for SPiRiT.

WICRACEETHNICITY CD****	ETHNICITY CD	RACE 1CD	RACE 2CD	RACE 3CD	RACE 4CD	RACE 5CD	RACEDESCRIPTION	ETHNICITYDESCRIPTION
101	1	Y	N	N	N	N	American Indian or Alaskan Native	Hispanic or Latino
102	1	N	Y	N	N	N	Asian	Hispanic or Latino
103	1	N	N	Y	N	N	Black or African American	Hispanic or Latino
104	1	N	N	N	Y	N	Native Hawaiian or Other Pacific Islander	Hispanic or Latino
105	1	N	N	N	N	Y	White	Hispanic or Latino
106	1	Y	N	N	N	Y	American Indian or Alaskan Native; White	Hispanic or Latino
107	1	N	Y	N	N	Y	Asian; White	Hispanic or Latino
108	1	N	N	Y	N	Y	Black or African American; White	Hispanic or Latino
109	1	Y	N	Y	N	N	American Indian or Alaskan Native; Black or African American	Hispanic or Latino
110	1	Y	Y	N	N	N	American Indian or Alaskan Native; Asian	Hispanic or Latino
111	1	Y	N	N	Y	N	American Indian or Alaskan Native; Native Hawaiian or Other Pacific Islander	Hispanic or Latino
112	1	N	Y	Y	N	N	Asian; Black or African American	Hispanic or Latino
113	1	N	Y	N	Y	N	Asian; Native Hawaiian or Other Pacific Islander	Hispanic or Latino
114	1	N	N	Y	Y	N	Black or African American; Native Hawaiian or Other Pacific Islander	Hispanic or Latino
115	1	N	N	N	Y	Y	Native Hawaiian or Other Pacific Islander; White	Hispanic or Latino
116	1	Y	Y	Y	N	N	American Indian or Alaskan Native; Asian; Black or African American	Hispanic or Latino



WICRACEETHNICITY CD****	ETHNICITY CD	RACE 1CD	RACE 2CD	RACE 3CD	RACE 4CD	RACE 5CD	RACEDESCRIPTION	ETHNICITYDESCRIPTION
117	1	Y	Y	N	Y	N	American Indian or Alaskan Native; Asian; Native Hawaiian or Other Pacific Islander	Hispanic or Latino
118	1	Y	Y	N	N	Y	American Indian or Alaskan Native; Asian; White	Hispanic or Latino
119	1	Y	N	Y	Y	N	American Indian or Alaskan Native; Black or African American; Native Hawaiian or Other Pacific Islander	Hispanic or Latino
120	1	Y	N	Y	N	Y	American Indian or Alaskan Native; Black or African American; White	Hispanic or Latino
121	1	Y	N	N	Y	Y	American Indian or Alaskan Native; Native Hawaiian or Other Pacific Islander; White	Hispanic or Latino
122	1	N	Y	Y	Y	N	Asian; Black or African American; Native Hawaiian or Other Pacific Islander	Hispanic or Latino
123	1	N	Y	Y	N	Y	Asian; Black or African American; White	Hispanic or Latino
124	1	N	Y	N	Y	Y	Asian; Native Hawaiian or Other Pacific Islander; White	Hispanic or Latino
125	1	N	N	Y	Y	Y	Black or African American; Native Hawaiian or Other Pacific Islander; White	Hispanic or Latino
126	1	Y	Y	Y	Y	N	American Indian or Alaskan Native; Asian; Black or African American; Native Hawaiian or Other Pacific Islander	Hispanic or Latino
127	1	Y	Y	Y	N	Y	American Indian or Alaskan Native; Asian; Black or African American; White	Hispanic or Latino
128	1	Y	Y	N	Y	Y	American Indian or Alaskan Native; Asian; Native Hawaiian or Other Pacific Islander; White	Hispanic or Latino
129	1	Y	N	Y	Y	Y	American Indian or Alaskan Native; Black or African American; Native Hawaiian or	Hispanic or Latino



WICRACEETHNICITY CD****	ETHNICITY CD	RACE 1CD	RACE 2CD	RACE 3CD	RACE 4CD	RACE 5CD	RACEDESCRIPTION	ETHNICITYDESCRIPTION
							Other Pacific Islander; White	
130	1	N	Y	Y	Y	Y	Asian; Black or African American; Native Hawaiian or Other Pacific Islander; White	Hispanic or Latino
131	1	Y	Y	Y	Y	Y	American Indian or Alaskan Native; Asian; Black / African American; Native Hawaiian / Other Pacific Islander; White	Hispanic or Latino
201	2	Y	N	N	N	N	American Indian or Alaskan Native	Not Hispanic or Latino
202	2	N	Y	N	N	N	Asian	Not Hispanic or Latino
203	2	N	N	Y	N	N	Black or African American	Not Hispanic or Latino
204	2	N	N	N	Y	N	Native Hawaiian or Other Pacific Islander	Not Hispanic or Latino
205	2	N	N	N	N	Y	White	Not Hispanic or Latino
206	2	Y	N	N	N	Y	American Indian or Alaskan Native; White	Not Hispanic or Latino
207	2	N	Y	N	N	Y	Asian; White	Not Hispanic or Latino
208	2	N	N	Y	N	Y	Black or African American; White	Not Hispanic or Latino
209	2	Y	N	Y	N	N	American Indian or Alaskan Native; Black or African American	Not Hispanic or Latino
210	2	Y	Y	N	N	N	American Indian or Alaskan Native; Asian	Not Hispanic or Latino
211	2	Y	N	N	Y	N	American Indian or Alaskan Native; Native Hawaiian or Other Pacific Islander	Not Hispanic or Latino
212	2	N	Y	Y	N	N	Asian; Black or African American	Not Hispanic or Latino
213	2	N	Y	N	Y	N	Asian; Native Hawaiian or Other Pacific Islander	Not Hispanic or Latino
214	2	N	N	Y	Y	N	Black or African American; Native Hawaiian or Other Pacific Islander	Not Hispanic or Latino



WICRACEETHNICITY CD****	ETHNICITY CD	RACE 1CD	RACE 2CD	RACE 3CD	RACE 4CD	RACE 5CD	RACEDESCRIPTION	ETHNICITYDESCRIPTION
215	2	N	N	N	Y	Y	Native Hawaiian or Other Pacific Islander; White	Not Hispanic or Latino
216	2	Y	Y	Y	N	N	American Indian or Alaskan Native; Asian; Black or African American	Not Hispanic or Latino
217	2	Y	Y	N	Y	N	American Indian or Alaskan Native; Asian; Native Hawaiian or Other Pacific Islander	Not Hispanic or Latino
218	2	Y	Y	N	N	Y	American Indian or Alaskan Native; Asian; White	Not Hispanic or Latino
219	2	Y	N	Y	Y	N	American Indian or Alaskan Native; Black or African American; Native Hawaiian or Other Pacific Islander	Not Hispanic or Latino
220	2	Y	N	Y	N	Y	American Indian or Alaskan Native; Black or African American; White	Not Hispanic or Latino
221	2	Y	N	N	Y	Y	American Indian or Alaskan Native; Native Hawaiian or Other Pacific Islander; White	Not Hispanic or Latino
222	2	N	Y	Y	Y	N	Asian; Black or African American; Native Hawaiian or Other Pacific Islander	Not Hispanic or Latino
223	2	N	Y	Y	N	Y	Asian; Black or African American; White	Not Hispanic or Latino
224	2	N	Y	N	Y	Y	Asian; Native Hawaiian or Other Pacific Islander; White	Not Hispanic or Latino
225	2	N	N	Y	Y	Y	Black or African American; Native Hawaiian or Other Pacific Islander; White	Not Hispanic or Latino
226	2	Y	Y	Y	Y	N	American Indian or Alaskan Native; Asian; Black or African American; Native Hawaiian or Other Pacific Islander	Not Hispanic or Latino
227	2	Y	Y	Y	N	Y	American Indian or Alaskan Native; Asian; Black or African American; White	Not Hispanic or Latino



WIRACEETHNICITY CD****	ETHNICITY CD	RACE 1CD	RACE 2CD	RACE 3CD	RACE 4CD	RACE 5CD	RACEDESCRIPTION	ETHNICITYDESCRIPTION
228	2	Y	Y	N	Y	Y	American Indian or Alaskan Native; Asian; Native Hawaiian or Other Pacific Islander; White	Not Hispanic or Latino
229	2	Y	N	Y	Y	Y	American Indian or Alaskan Native; Black or African American; Native Hawaiian or Other Pacific Islander; White	Not Hispanic or Latino
230	2	N	Y	Y	Y	Y	Asian; Black or African American; Native Hawaiian or Other Pacific Islander; White	Not Hispanic or Latino
231	2	Y	Y	Y	Y	Y	American Indian/Alaskan Native; Asian; Black/African American; Native Hawaiian/Other Pacific Islander; White	Not Hispanic or Latino
999	9	N	N	N	N	N	Unknown	Unknown