

August 30, 2018

# **IIS System Enhancements: *Value of Sharing Across Projects***

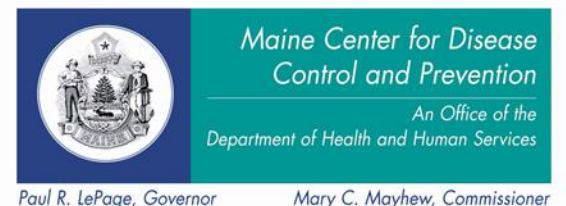
## **Presenter**

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# Background

- **In early 2017, the Maine Immunization Program (MIP) made the decision to replace their current system, ImmPact, with an updated version using the California implementation of the Wisconsin Immunization Registry (WIR).**
- **Realized opportunities for:**
  - Sharing key valued features in the current system
  - Incorporating functionality from other projects
  - Creating an application that represented enhanced functionality and served Maine's unique needs.
- **Many features already existed in other projects and various project artifacts could be leveraged.**



Base System

Org Level Notes

Deduct From Inventory Tool and Report  
Manage NDC/Ordering

Temp Log Functionality

# WIR California Base System

- **Replacing with CAIR2 either met or exceeded many of Maine's requirements:**
  - Updated Evaluator
  - Updated de-duplication logic
  - Updated data exchange features
  - Additional features such as
    - ✓ Forget Password Functionality
    - ✓ Reports
    - ✓ Data warehouse with ETL process
  - Leveraged other documents such as User Manual, Online Help, and Operations Manual

# Decrement From Inventory Reconciliation (aka: Des-Dec or DFI Tool)

## Des-Dec fix tool screen

Immunizations Not Decrementated for Organization: - PORTAL ORG - 159874							Record Count: 4
Vaccination Date	Lot/CVX	Eligibility	Trade Name	Patient Name	DOB	Actual Lot	Update
02/16/2018	TEST18/21 - Varicella	317 Eligible - Uninsured Adult	Varivax ▼	RANGER, POWER	02/13/1999	TEST556 ▼	<input type="checkbox"/>
06/24/2015	353480/133 - PCV13	VFC Eligible - American Indian or Alaskan Native	Pprevnar13 ▼	CROW, RUSSELL	04/15/2015	Insufficient Inventory	<input type="checkbox"/>
11/01/2017	PNU23342/113 - Td Pres-Free		▼	BANANA, ANNA	06/15/2000	▼	<input type="checkbox"/>
12/01/2015	ROTA/116 - Rotavirus, Pent	VFC Eligible - Medicaid/MaineCare - Under 19	RotaTeq ▼	TTEST, DX	01/01/2012	348484 - f ▼	<input checked="" type="checkbox"/>

## Des-Dec fix tool report

Des-Dec Detail Report

For Dates 04/25/2018 through 06/25/2018

Report run on: 06/25/2018 15:33

Page 1

PORTAL ORG - 159874

Patient Name	Transaction Date	Date of Birth	Vaccination Date	CVX/Trade Name	Lot Number Sent	Eligibility	Error Message Received
RANGER, POWER	06/13/2018	02/13/1999	02/16/2018	21/	TEST18	317 Eligible - Uninsured Adult	Vaccine lot(s) not found - No matching lot number.

# Decrement From Inventory Reconciliation (aka: Des-Dec or DFI Tool)



## From Iowa (IRIS)

- Code
- Functional Design Document
- Detailed Test Plan
- User Documentation

## Future Updates/Collaboration

- Other Projects Interest
- 'Remove' Functionality



# Manage NDC and Ordering

Org Order

**View Order # 253**

VFC PIN159874

Initiating OrganizationPORTAL ORG

Initiating UserLacey Dean

Org Phone(207) 555-5555

Org Fax(666) 777-8888 x

Order Date03/01/2018

Delivery ContactJOHN TEST

Delivery Address123 MAIN STREET

AUGUSTA,ME 04330-

Delivery Days/HoursMonday 10 AM - 4 PM  
Tuesday 8 AM - 4 PM  
Wednesday 8 AM - 4 PM  
Thursday 8 AM - 4 PM  
Friday 8 AM - 4 PM

Print Order

Cancel

**Pediatric Vaccine**

Item #	Order Qty.	Item Ordered	Item Sent to Dist.	Qty Sent to Dist.	Ship Qty.	Backordered Qty.	Denied Qty.
447	10	DTaP-IPV (Kinrix - SKB)	DTaP-IPV (Kinrix - SKB)	10	10		
448	10	HPV9 (Gardasil 9 - MSD)	HPV9 (Gardasil 9 - MSD)	10	10		

State Approval  
Screen

PriorityNo

Priority Reason

Comments

Add

Remove

**Pediatric Vaccine**

**Order item: 1**

Quantity	Vaccine	Trade Name	Manufacturer	Packaging	NDC	# Doses Ordered	Order in Multiples of
	DTaP	Infanrix	GlaxoSmithKline	10 pack - 1 dose vials	58160-0810-11	10	10
			Alternative Trade Name			Deny	

**Order item: 2**

Quantity	Vaccine	Trade Name	Manufacturer	Packaging	NDC	# Doses Ordered	Order in Multiples of
	HepB-Hib	Comvax	Merck & Co., Inc.	COMVAX 10X1 VIALS	00006-4898-00	10	10
			Alternative Trade Name			Deny	

# Manage NDC Screen

**Enter NDC Information**

Trade NameActHib

VaccineHib-PRP-T CVX 48

Save

Cancel

\* NDC Number12345-1234-12

\* Packaging Description5 pack - 1 dose vials

\* Dose Size.5

\* Units Per Package5

\* Doses Per Unit1

\* ManufacturerSanofi Pasteur Inc.

\* StatusActiveInactive

\* OrderableYesNo

\* Direct ShipYesNo

**Ordering Intention**

**Pediatric**

Able to Order NDC

Not able to order NDC

BENNY AND THE JETS  
BEV MEDICAL OFFICES  
BEV'S FAMILY PRACTICE  
BEV'S PEDIATRICS  
BEVERLY'S SCHOOL  
BEVERLY'S TEST SITE  
BEVS VET CLINIC

Add Org(s) >  
Add All >>  
< Remove Org(s)  
<< Remove All

\* Maximum Order Qty1000

**Adult**

Able to Order NDC

Not able to order NDC

BEVS VET CLINIC  
KAYLAS KRAZY KIDS

Add Org(s) >  
Add All >>  
< Remove Org(s)  
<< Remove All

\* Maximum Order Qty0

**Ancillary**

Able to Order NDC

Not able to order NDC

BEVS VET CLINIC  
KAYLAS KRAZY KIDS

Add Org(s) >  
Add All >>  
< Remove Org(s)  
<< Remove All

\* Maximum Order Qty1000

\* Fields marked with an asterisk are required.

# Manage NDC and Ordering

## From Iowa (IRIS)

- Code
- Functional Design Document
- Detailed Test Plan
- User Documentation

## Future Updates/Collaboration

- Other Projects Interest
- Future NDC enhancements
- Future Vaccine Ordering Enhancements



# Temperature Logging (aka: Cold Chain or Temp Log)



## Manage Cold Chain

Add/Edit Refrigerator or Freezer

\* Unit Name

Sample Refrigerator

Save

Cancel

☐ Refrigerator

☐ Freezer

☒ Active

☐ Inactive

☒ Fahrenheit

☐ Celsius

\* Style

Stand Alone Refrigerator

## Record Cold Chain

Cold Chain

ATTENTION: Temperature recording must be entered within 15 days of current date. Please round all temperatures to the nearest whole number.

Unit

Sample Refrigerator

Save

Cancel

Date

06/25/2018

Refresh List

Displayed Week: 06/19/2018 to 06/25/2018

Go to Previous Week

Go to Next Week

Temperature Acceptable Range: 36 to 46 (°F)

Date	Office Closed	Time	* Current	* Min	* Max	Comment	Reported By
06/25/2018	Open	08:30 AM	36 °F	37 °F	37 °F		Mandy Patti 06/25/2018 03:45 PM
	Close	01:00 PM	40 °F	36 °F	36 °F		Mandy Patti 06/25/2018 03:45 PM
06/24/2018	Open	09:30 AM	37 °F	37 °F	37 °F		Mandy Patti 06/25/2018 03:45 PM
	Close	02:45 PM	40 °F	40 °F	40 °F		Mandy Patti 06/25/2018 03:45 PM
06/23/2018	Open						Mandy Patti 06/25/2018 03:45 PM
	Close						
06/22/2018	Open	01:00 PM	Out of Range	37 °F	36 °F	power outage	Mandy Patti 06/25/2018 03:45 PM
	Close	04:30 PM	34 °F				Mandy Patti 06/25/2018 03:45 PM
			38 °F	38 °F	38 °F		
06/21/2018	Open	12:45 PM	37 °F	38 °F	38 °F		Mandy Patti 06/25/2018 03:45 PM
	Close	05:00 PM	40 °F	37 °F	37 °F		Mandy Patti 06/25/2018 03:45 PM
06/20/2018	Open						Mandy Patti 06/25/2018 03:45 PM
	Close						
06/19/2018	Open						Mandy Patti 06/25/2018 03:45 PM
	Close						

## Cold Chain Reports

Cold Chain Report

Organization

View

Cancel

Please pick from the Organization drop down OR county/organization selection below

☐ Select by county or region

use Ctrl or Shift for multiple selections

Androscoggin

Aroostook

Cumberland

Franklin

Hancock

Add >

< Remove

☐ Select Multiple Organizations

use Ctrl or Shift for multiple selections

All Organizations

All VFC Program Organizations

All Non-VFC Program Organizations (No VFC PIN)

ALLSCRIPTS

AUGUSTA SCHOOLS

Add >

< Remove

Report Type

☒ Standard Cold Chain Report

☐ Out of Range Report \*Aggregate

☐ Compliance Report \*Aggregate

☐ Min/Max Compliance Report \*Aggregate

File Type

☒ PDF

☐ Spreadsheet

Date Range

\*From

\*To

DXC.technology

August 30, 2018

# Temperature Logging (aka: Cold Chain or Temp Log)



## From New York State (NYSIIS)

- Code
- Functional Design Document
- Detailed Test Plan
- User Documentation

## Future Updates/Collaboration

- Other Projects Interest
- Future Enhancements to Min/Max
- Future Data Logger Enhancements

# Organization Specific Notes

## From Texas (ImmTrac2)

- Concept

## Future Updates/Collaboration

- Other Projects Interest
- Ability to assign/send notes out via email to state staff

**Organization Notes**

Enter Subject of Note:



Enter Text of Note:

Add New Note

**Historical Notes** [printer-friendly version](#)

Created by	Create Date	Subject	Note
Patti, Mandy	06/25/2018 03:59 pm	VFC Visit	VFC Site Visit on 6/1/18.
Patti, Mandy	06/25/2018 04:00 pm	Help Desk Call	Test User called the help desk inquiring on order #1298. Sent to Grace for follow-up.

**Search Previous Notes**

Date Range From   To  

Refresh List



**Other IIS Projects**

**Provider Agreement  
Clinic Events**

# Provider Agreement

- 7 screens
- Ability for state to review/approve agreements
- Added new features such as **New** flag if something within Agreement changed
- Yearly Updates

### VFC Provider Profile Search

Name: 
Pin:

Phone Number: (  )  - 
Status:  ▼

Contract Year: 2018 ▼

### VFC Provider Profile Search Results

PDF - Full	PDF - Signature Page	Site Name	Pin	Approval Status	Last Updated
<a href="#">2018 PDF</a>	<a href="#">PDF Signature</a>	<a href="#">BEV'S FAMILY PRACTICE</a>	7124	Approved	06/29/2018
<a href="#">2018 PDF</a>	<a href="#">PDF Signature</a>	<a href="#">BEV'S PEDS</a>	7125	In Progress	06/19/2018
<a href="#">2018 PDF</a>	<a href="#">PDF Signature</a>	<a href="#">IR Physicians</a>	159874	Approved	06/19/2018
<a href="#">2018 PDF</a>	<a href="#">PDF Signature</a>	<a href="#">Kayla</a>	6045	Approved	05/15/2018
<a href="#">2018 PDF</a>	<a href="#">PDF Signature</a>	<a href="#">Maine Immunization Program</a>	321	In Progress	04/03/2018
<a href="#">2018 PDF</a>	<a href="#">PDF Signature</a>	<a href="#">SHERRI TEST</a>	1421	Approved	06/12/2018
<a href="#">2018 PDF</a>	<a href="#">PDF Signature</a>	<a href="#">SUSAN'S PEDS</a>	3210	Approved	04/25/2018

# Clinic Events



- **Previously called ‘Mass Imm’ in legacy ImmPact**
- **Allows a provider organization to set up a vaccination event in which other provider organizations can participate, using the primary organization’s inventory to administer vaccinations to their patients**
- **Allows a provider organization to set up a new “clinic event,” or revise an existing event**
- **Allows participating clinic event users to select a “clinic event,” and quick entry of patients and their administered vaccinations**

# Manage Clinic Event

**Add/Edit Clinic Event**

\*Name

\*Type

**Add Vaccine Lots**

Trade Name - Funding Source

Lot Number

Expiration Date

**List of Available Lots**

Trade Name - Funding Source	Lot Number	Expiration Date	Delete
Zostavax - PUBLIC	554798	12/31/2019	<input type="checkbox"/>

**Add Participating Organizations**

**Organizations**

AUGUSTA SCHOOLS  
 BENNY AND THE JETS  
 BEV MEDICAL OFFICES  
 BEV'S FAMILY PRACTICE  
 BEV'S PEDIATRICS  
 BEVERLY'S SCHOOL  
 BEVERLY'S TEST SITE

**Participating Organizations**

JES Healthcare  
 PORTAL ORG

**Close Clinic Event**

Open Date: 01/25/2018
 Close Date:

# Clinic Event Administration

**Clinic Event Administration**

Clinic Events

Open Date: 01/10/2018

**Patient Quick Entry**

**Patient Search:**

Last Name 
 First Name

**Patient List:**

Last Name	First Name	Middle Name	Birth Date	Gender
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**Personal Information**

\* Last Name

\* First Name

Middle Name

\* Birth Date

\* Gender

Street Address

Other Address

City

State

Zip  +4

County

Home Phone  -  -



# Lessons Learned

- **Less Risk**
- **Less Time**
  - Documentation including FDD, DTPs, User Documentation, and Online Help Updates
- **Easier Validation of Unexpected Test Results**
- **Increased Future Collaboration**

# Lessons Learned (continued)

- **Ensure understanding of what the incoming and existing code is connected to**
- **More definition in areas such as data updates and business rules**
  - what stays as is
  - what goes
  - what is updated
- **Additional regression on existing screens**
- **Better tracking of actuals vs estimated for future projects**

# Collaboration and Sharing

- **As today's IISs become more integrated and complex and resources, time, and money become scarcer, collaboration and sharing of enhancements and functionality is critical.**
- **Can be platform agnostic, not just about leveraging code but also**
  - Requirements documentation
  - Test Plans
  - User documentation
  - Concepts
- **Not only does it allow for savings in the areas of time, resources, and cost but it promotes future opportunities for collaboration.**

# Thank You!

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