Technical Presentation

RxCHECK HUB

CDC/BJA RxCheck Hub Webinar April 22, 2019



Bureau of Justice Assistance





Presenters

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Webinar Objectives

- RxCheck Hub Overview
- RxCheck Hub Technical Functionality
- Washington State Live Demo
 - Administrator's Console
 - Auditing Capabilities
- Process for Connecting to RxCheck
 - MOUs
 - Software
 - Timelines
- Questions



What is the RxCheck Hub?

RxCheck is a fully operational hub that enables states to securely and efficiently share PDMP data.

RxCheck was developed with support from the U.S. Bureau of Justice Assistance (BJA), using the Prescription Monitoring Information Exchange (PMIX) National Architecture specifications.

RxCheck was designed with the involvement of state PDMP administrators, private industry, and the federal government.

The RxCheck system infrastructure has been tested and validated, and includes the latest design improvements to meet the needs of the state PDMPs.



RxCheck Governance Board

Alabama

California

Florida

Illinois

Kentucky

Maine

Maryland

Massachusetts

New York

North Carolina

Oklahoma

Pennsylvania

Utah

Vermont

Washington

West Virginia

Wisconsin Wyoming

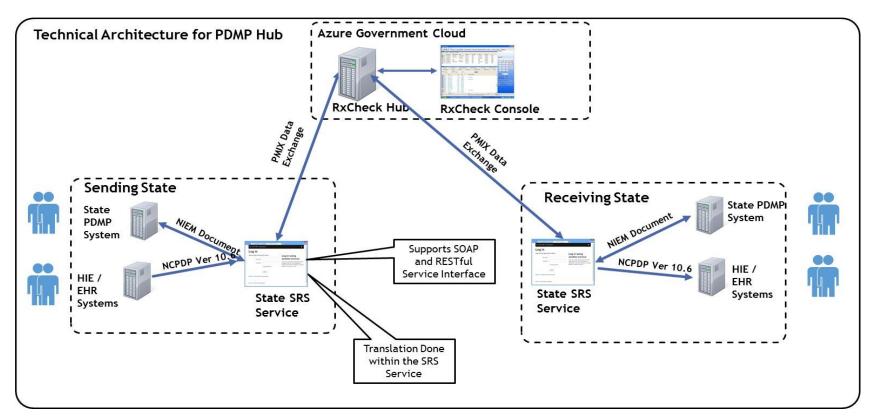


Background

- Over the past year, BJA, in conjunction with the CDC and the RxCheck Governance Board, has been working with the IJIS team (Tetrus) to implement an interoperable infrastructure that enables states and authorized users to share prescription information
- A number of pilot states and some EHR systems have been connected and those connections have been tested.

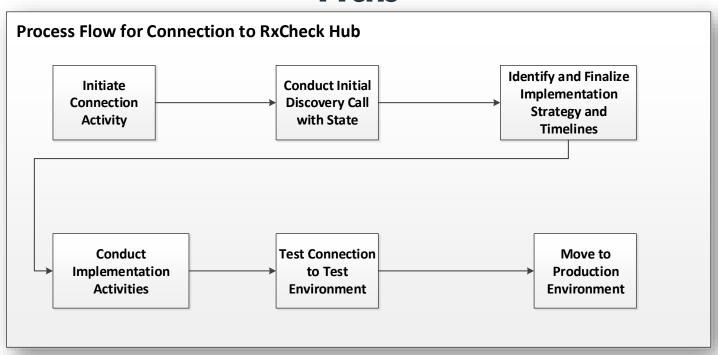


PDMP Infrastructure Architecture





Process Flow for Connection to RxCheck Hub





Roles and Responsibilities

IJIS/Tetrus responsibilities

- IJIS/Tetrus will provide the State Routing Service (SRS) software with installation instructions
- IJIS/Tetrus will assist the State and/or the states vendor with installation and testing

State responsibilities

- Provide space for implementing the SRS software
- Install the software with help from the IJIS/Tetrus team
- Ensure that the firewall and other rules are configured to enable incoming and outgoing traffic
- Make any modifications required to connect its PDMP system to the SRS software
- Monitor the test to identify and resolve any issues that may arise
- Initially connect to the RxCheck Test Environment to ensure that the end-to-end connection is working correctly
- Monitor the migration to identify and resolve any issues
- Migrate to the RxCheck Production Environment once the end-to-end test is successful



RxCheck Hub Capabilities

Version 2.0

- Integration with HIE / EHR
- Auditing: requestor/submitter; date and time
- RxConsole supporting a central PKI database to manage public certificates
- Added security layer to access the SRS configuration by introducing API Key
- Ability for state to create and manage healthcare provider accounts operating within their state
- Notification framework
 - o Resetting password onsite
 - Real-time notifications if site is down
- Java-based State Routing Service that can be deployed on multiple platforms
- Translation service built into Outbound SRS to transform NCPDP payload to NIEM



Integrated Data Sharing

- Owensboro Health and the Kentucky All Schedule Prescription Electronic Reporting (KASPER) system
- NCPDP Script v10.6
- Prescriber Workflow Integration



Query Triggering Events

- Daily job runs at 12:30am to trigger query for all scheduled patients for that same day
- When a patient is Checked In for an appointment scheduled and seen the same day
- When Telephone/Orders Only/Refill encounters are created/initiated
- When a hospital encounter is created (when a patient is admitted)



Washington State Demo



Hub Console Screen Shots



AUDIT EVENT LOGS







Event Logs











All Site Requesting Site Disclosing Site

Owensboro Health Inc. - KY OHI

Site Code*

Requesting Site

03/20/2019 - 04/20/2019

Request Datetime

Date Range*

Response

Export

Response Status

More>>>

ld ≑	Request Id \$	Requesting Site	Disclosing Site \$	Requestor \$	Role \$	Request Datetime	Datetime \$	Response Status
uuid:355c8533- 3a19-431c-894b- abb491adc8c7	193097750	кү_оні	KY	John Walker	Physicians	03/21/2019 01:30 AM	03/21/2019 01:30 AM	NotFound
uuid:693efdee- 7431-4cf1-9cde- ed7602eb503b	193452375	ку_оні	KY	Daniel Warburton	Physicians	03/21/2019 12:31 PM	03/21/2019 12:31 PM	Provided
uuid:e47b24b7- 7281-4ab5-ba5b- 63777275d8e8	193488862	ку_оні	KY	Marshall Prunty	Physicians	03/21/2019 01:44 PM	03/21/2019 01:45 PM	NotFound
uuid:f93a8492- 25fc-4696-a75c- 0444d5f02ae4	193500653	ку_оні	KY	Corey Johnson	Physicians	03/21/2019 02:07 PM	03/21/2019 02:07 PM	NotFound
uuid:22678d9c- e1cd-4774-9628- e850ba3474ab	193507141	ку_оні	KY	Corey Johnson	Physicians	03/21/2019 02:20 PM	03/21/2019 02:20 PM	NotFound
uuid:576cb402- da3e-4502-b95f- 39bd0faa2ad5	193539069	кү_оні	KY	Michael Gabbard	Physicians	03/21/2019 03:12 PM	03/21/2019 03:12 PM	NotFound
uuid:b41753eb- ed24-4b21-9f64- c9dd0dc517bc	193540384	кү_оні	KY	Francis Dufrayne	Physicians	03/21/2019 03:15 PM	03/21/2019 03:15 PM	NotFound
uuid:b856cd09-						02/21/2010 04:46	02/24/2040 04:46	



NCPDP TAXONOMY CODE MAPPING

Description \$





PMIX Role \$





Taxonomy Code Mapping





Taxonomy Code 🗸



Q Global Filter









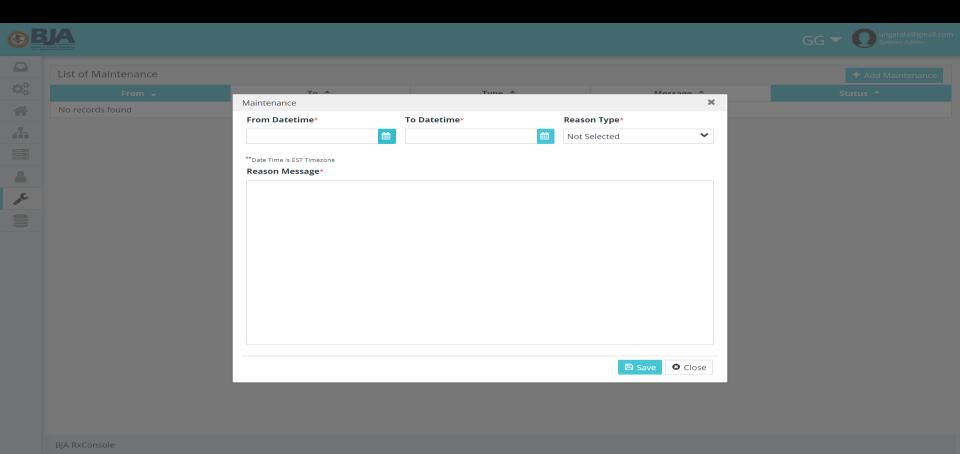




367H00000X	Anesthesiology Assistant	
367A00000X	Certified Nurse Midwife	Advanced Practice RNs
367500000X	Certified Registered Nurse Anesthetist (CRNA)	Advanced Practice RNs
364SX0204X	Certified Clinical Nurse Specialist	Advanced Practice RNs
364SX0200X	Certified Clinical Nurse Specialist	Advanced Practice RNs
364SX0106X	Certified Clinical Nurse Specialist	Advanced Practice RNs
364SW0102X	Certified Clinical Nurse Specialist	Advanced Practice RNs
364ST0500X	Certified Clinical Nurse Specialist	Advanced Practice RNs
364SS0200X	Certified Clinical Nurse Specialist	Advanced Practice RNs
364SR0400X	Certified Clinical Nurse Specialist	Advanced Practice RNs
364SP2800X	Certified Clinical Nurse Specialist	Advanced Practice RNs
364SP1700X	Certified Clinical Nurse Specialist	Advanced Practice RNs
364SP0813X	Certified Clinical Nurse Specialist	Advanced Practice RNs
364SP0812X	Certified Clinical Nurse Specialist	Advanced Practice RNs
364SP0811X	Certified Clinical Nurse Specialist	Advanced Practice RNs
364SP0810X	Certified Clinical Nurse Specialist	Advanced Practice RNs
364SP0809X	Certified Clinical Nurse Specialist	Advanced Practice RNs
364SP0808X	Certified Clinical Nurse Specialist	Advanced Practice RNs
364SP0807X	Certified Clinical Nurse Specialist	Advanced Practice RNs



PDMP MAINTENANCE





Role Authorization for Sites



















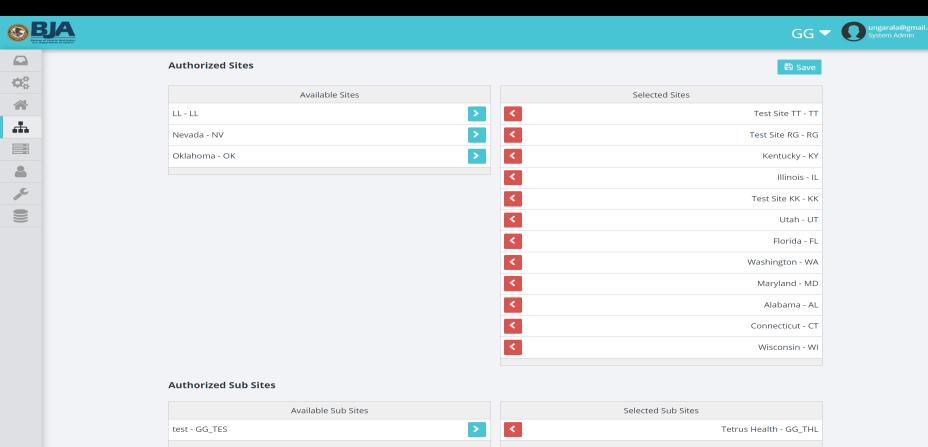


Authorized roles for sites	Connecticut - CT	~
Aut	horized Roles	
Advanced Practice RNs		>
Physician Assistants		>
Dentists		>
Optometrists		>
Psychologists		>
Naturopaths		>
Homeopaths		>
Veterinarians		>
Interns		>
Substance Abuse/Mental Health I	Professional	>
Other Non-Prescribers		>
Residents		>

Physician:
Prescribing Pharmacists
Other Prescribers
Pharmacists
Pharmacy
Prescriber Delegates - Licensed
Prescriber Delegates - Unlicensed
Dispenser Delegates - Licensed
Dispenser Delegates - Unlicensed



Site Authorization





SRS Configuration



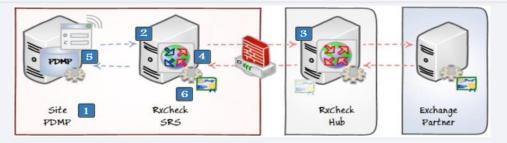






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+ 1 Site Unique Identifier / Description + 2 SRS Outbound Sender Endpoint + 3 RxCheck Hub Service Host Endpoint + 4 SRS Inbound Sender Endpoint + 5 Site PDMP Application Endpoint + 6 SRS Certificate



Connecting to RxCheck



Where do I start?

A website serves as your "one stop shop" to support connecting to the RxCheck hub.

The URL is: https://coapresources.org/pdmp/RxCheck

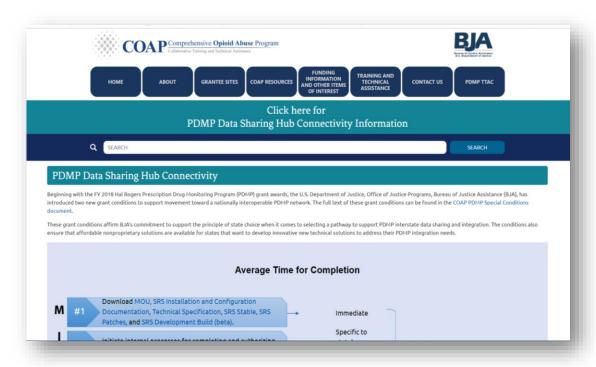
On the site you can:

- Access all the FAQs
- Access <u>all</u> documents and technical specifications needed to connect
- Schedule and attend webinars or access recordings of webinars
- Schedule time to speak with the IJIS staff one-on-one



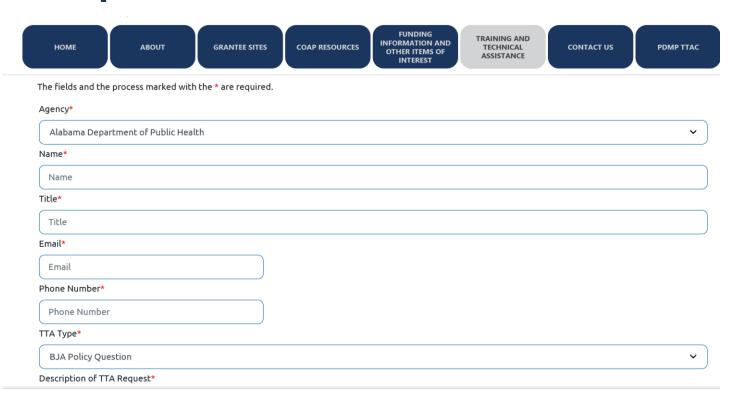
Resources including requesting TTA, registering for webinars, viewing FAQs, and more are available at

https://www.coapresources.org/PDMP/RxCheck

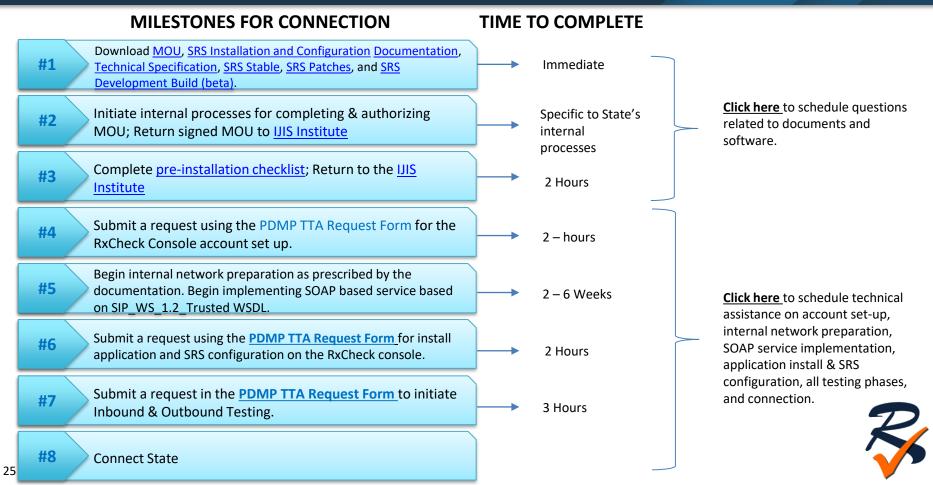




TTA Requests









Frequently Asked Questions (FAQs)

- Does the RxCheck hub or BJA/DOJ have access to my state's data at any point in the transmission of data?
 - The RxCheck hub and, by extension, DOJ does not have access to your state's data. Neither does the IJIS Institute. Each state maintains ownership and complete control over access to its PDMP data at each step of the process. Data is encrypted using x509 digital certificates to sign and encrypt messages. The message is encrypted at the source network before the message is submitted to the RxCheck hub. Only the receiving PDMP can decrypt the message.



Frequently Asked Questions (FAQs)

- What type of security audits does RxCheck complete, and how are those results made available?
 - There is an existing proposal to do an SOC2 compliance audit. The results will be made available to all states connected to RxCheck Hub
- What real-time audit trail functionality is available through RxCheck? Does it show what the requester accessed?
 - RxConsole provides authorized state administrators with real-time auditing capabilities to identify the requesting entity and the time of request. Since all data that passes through RxCheck Hub is encrypted, RxCheck cannot provide details on what was requested
- What available reports does RxCheck have?
 - The audit logs are available on RxConsole. Administrators can access these logs and export them as Excel documents



Frequently Asked Questions

- What level of load testing has been done on RxCheck? Any idea of the volume it is capable of handling?
 - The current RxCheck Hub version has been verified to support 120 transactions per second, with response latency of 2 seconds from PDMP application
- How does my state control which states can request its data or with which it shares data?
 - RxConsole provides authorized state administrators with the ability to control which states and which roles can request data



Questions





Grant Questions

CDC FAQs: https://www.cdc.gov/drugoverdose/pdf/CDC OD2A AwardConditionsFAQs 032819.pdf

CDC Email: overdosedata2action@cdc.gov

BJA FAQs: https://www.coapresources.org/PDMP/RxCheck

BJA Email: tara.kunkel@usdoj.gov



Contact Information

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