

The Exchange Network Virtual Exchange Services (Virtual Node)

1 / 21 / 2015

What are the Virtual Exchange Services(VES)

- ▶ A cloud platform that hosts any number of partner services: State, Tribe, Region, Agency, etc.
- ▶ Each partner configures services on the cloud platform by filling out forms in a web application (eliminating partner node HW/SW)
- ▶ Partners can create any type of Network service only it is easier and cheaper to set up and maintain
- ▶ New data exchanges are imported from a set of shared templates with no coding in minutes

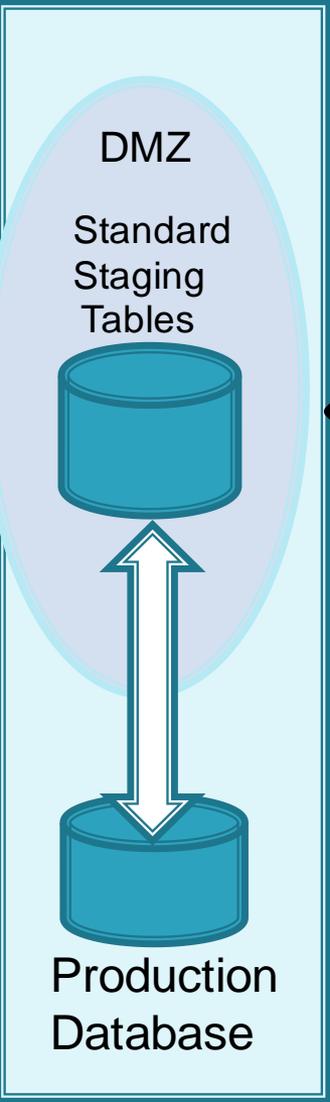
Why Virtual Exchange Services

- ▶ Nodes are Simply Configured not Installed
 - ▶ Provides a Low Cost Node Alternative for Partners
 - ▶ Eliminates Node Maintenance, upgrades, patching, etc.
 - ▶ Simplifies Development and Maintenance
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Advantages

- ▶ Can supplement existing nodes
- ▶ Common Architecture: New features will be shared by all nodes
- ▶ Can inherit services (e.g., ICIS–AIR)
- ▶ Only one trusted connection to your DMZ
- ▶ Services can be cataloged in ENDS automatically
- ▶ Cloud capacity is easily expanded to keep up with demand

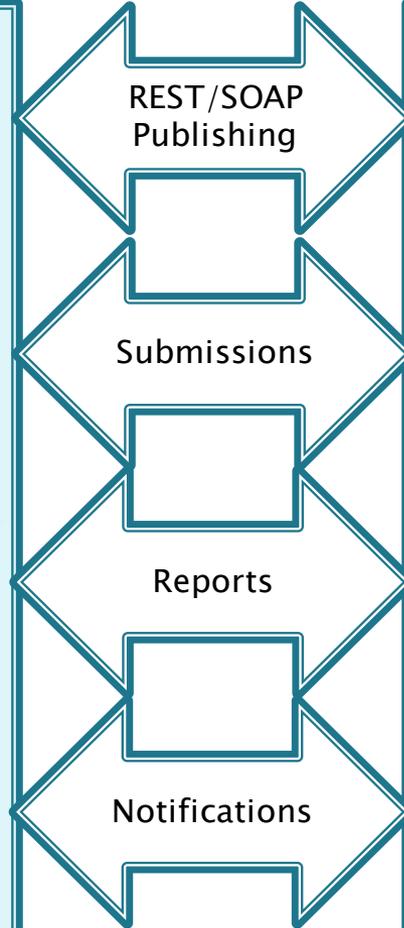
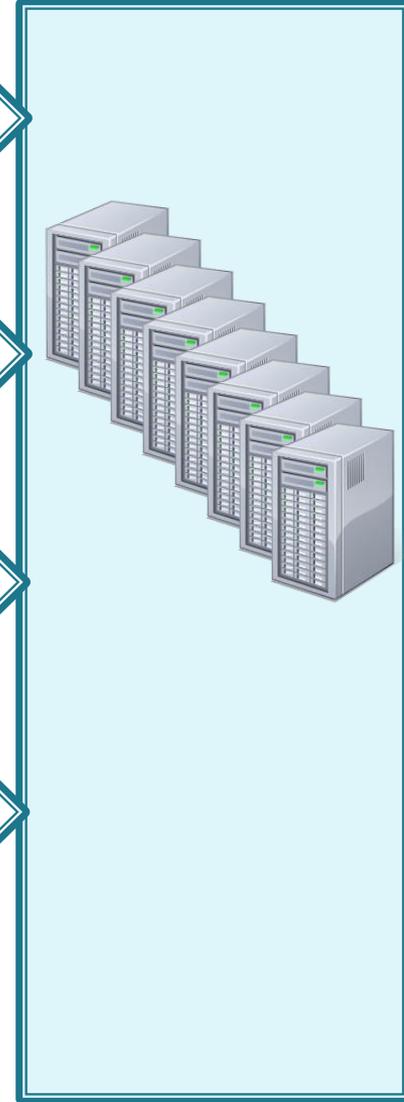
Partner Environment



Cloud



Exchange Network Partners / CDX



Virtual Exchange Services

What you do

- ▶ Establish Connection(ISB/VPN)
- ▶ Map Data to Staging Database
- ▶ Import Data Exchange (services..)

Virtual Exchange Services

- ▶ Creates SOAP and REST Services
- ▶ Schedules data exchange
- ▶ Authenticates
- ▶ Pulls Data from staging
- ▶ Formats data to XML
- ▶ Sends submission to CDX
- ▶ Logs activities
- ▶ Checks Status
- ▶ Collects processing reports
- ▶ Sends Notifications to you

Configuring a Service in the Admin Tool

[Admin. Console](#)

Service Details

[ChrisICISAirNode](#) (Operational | 2.1 | Test)

Node ID / Description:
ChrisICISAirNode -
My demonstration node
for ICIS

Dataflow:
ICIS-Air

Admin. Actions

[Services](#)

[Nodes](#)

[Dataflows](#)

[Data Sources](#)

[Document Headers](#)

[Tasks](#)

[Workflows](#)

[Node Requests](#)

Utilities

[Search Transactions](#)

[Provision Node](#)

[Export/Import Node](#)

Service Settings

Service Name:

GetAirFacility

Service Description*

Get Air Facility

Method Type*

Query

Visibility*

public

Service Status*

Enabled

Workflow

GenericQuery

Data Source*

ICISData

Style Sheet

GetAirFacility.xslt

Template

SQL Statement*

```
SELECT AirFacility.AirFacilityID,  
FacilitySiteName, LocationAddressText,  
SupplementalLocationText, GNISCityCode,  
LocationStateCode, LocationZipCode,  
LCONCode, TribalLandCode, FacilityDescription,  
FacilityTypeOfOwnershipCode,  
RegistrationNumber, SmallBusinessIndicator.
```

VES “Plug-ins” Supported

- ▶ AQS 3.0
- ▶ ICIS-AIR
- ▶ FACID v3.0 (FRS)
- ▶ eBeaches
- ▶ EIS V2.0
- ▶ EMTS v3.0
- ▶ ENDS v2.0
- ▶ ICIS-NPDES (DMR only)
- ▶ SPCC v1.1 (Region one)
- ▶ TRI (OUT)
- ▶ UIC
- ▶ WQX v2.0
- ▶ CROMERR (workflow for submission only)
- ▶ OWIR_ATT
- ▶ RCRA

Partner Status on VES

- Hualapai Tribe: Implemented WQX dataflow in production
- South Dakota: Implemented TRI OUT dataflow in production
- San Joaquin Air District (CA): Production submission of Air Facility, Compliance Monitoring and Annual Certification data for ICIS AIR.
- Alabama: Successfully tested submissions of Air Facility and Air Programming data to ICIS-AIR , actively developing more data families for ICIS-AIR
- Georgia: Implemented ICIS-AIR dataflow in production
- Maine, Oklahoma, Mohawk Tribe: following our progress

Documentation

- ▶ Lab Guide
- ▶ Developer Guide
- ▶ Admin Guide
- ▶ ICIS Air Setup Guide
- ▶ Connectivity Guide
- ▶ Connector Setup Guide
- ▶ Staging Databases

Questions