



MPDS

Michigan Prevention Data System

Adapted for Prevention Providers
March 8, 2012

General Concepts and Architecture

- Web-based application, as was SUDPDS
- Silverlight 4.0
- .NET Framework 4.0
- Microsoft Entity Framework data model
- Microsoft SQL Server 2008
- Security implemented on Windows Server 2008 R2 Active Directory

Reasons for the Rewrite

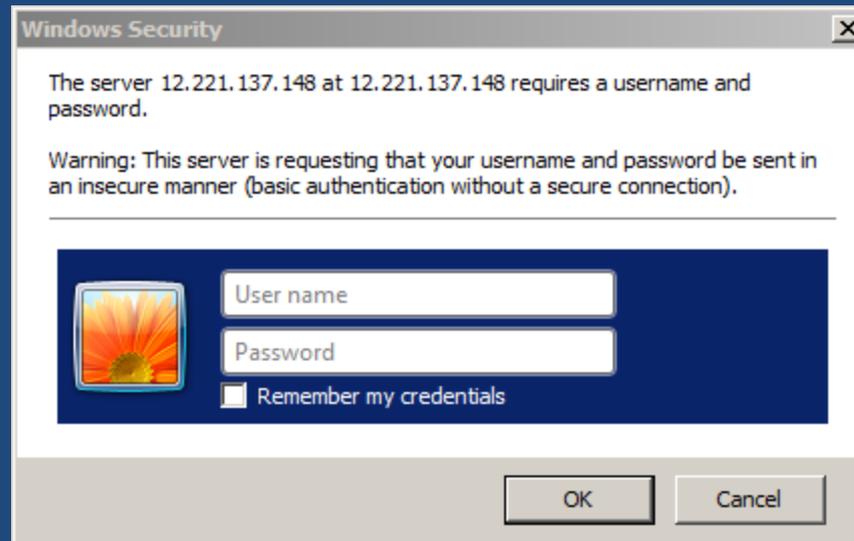
- Better performance
- Improved validation
- Content-driven data entry
 - Improved accuracy
 - Reduces time required to ensure data is correct
 - Better error messages to assist data entry personnel
- Platform better suited for future extensibility

Supported Environments

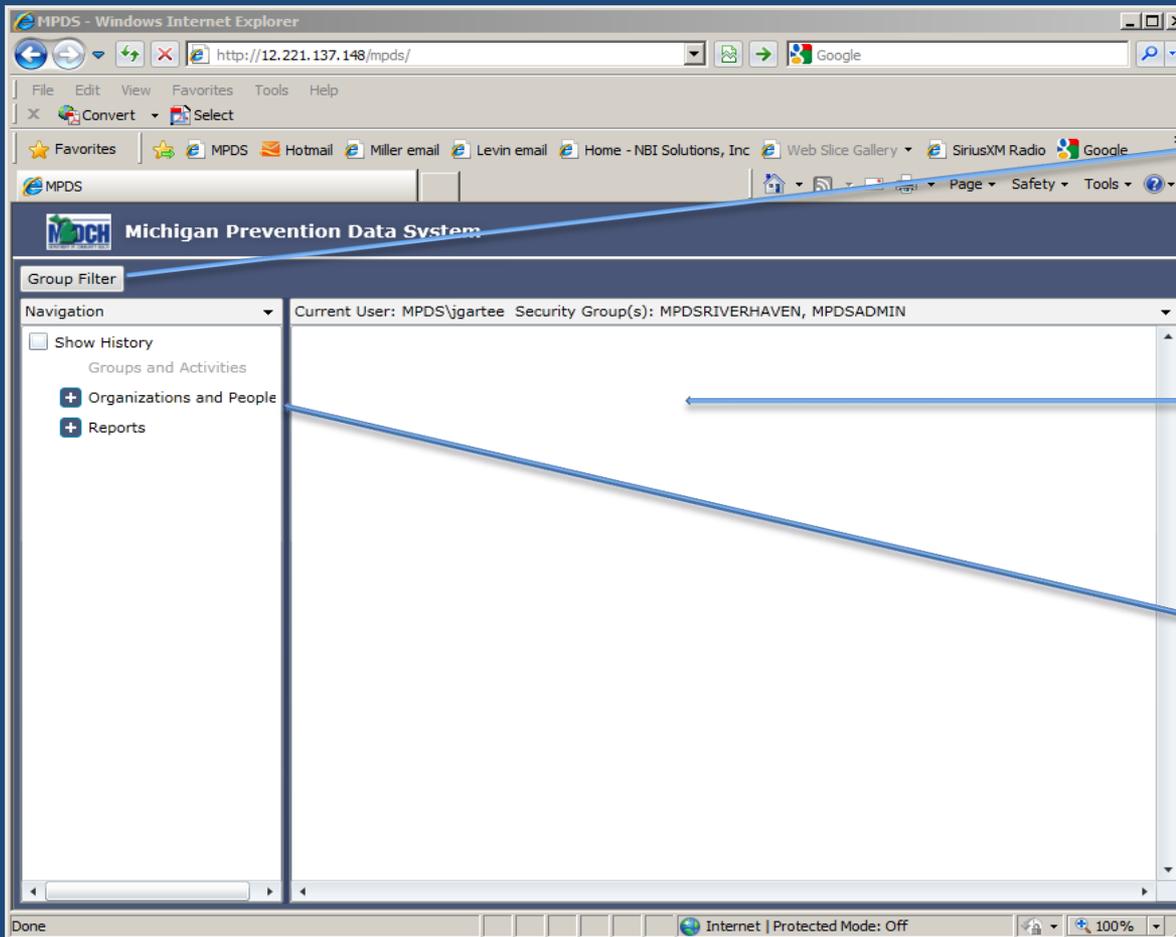
- Officially, Internet Explorer v8.0 and above
 - Not supported on 64-bit browsers
 - Known issue with Microsoft
- Has been run successfully on Mozilla Firefox and Google Chrome browsers

Logging into the Application

- Point your browser to `http://12.221.137.148/mpds`
- You should see a prompt similar to the one below.
- Enter the `userid/password` supplied by your CA Prevention Coordinator



Initial Application Display



Filter dropdown

- Used for data selection and retrieval

Data entry panel

- UserID and Security Groups
- Data entry form area

Navigation panel

- Show History
- Groups and Activities
- Organizations and People
- Reports

Organizations and People

- Definition of Provider Organizations tracked by MPDS
- Staff members who can be used in Activities to track strategy utilization by staff member
- Configuration for the Coordinating Agencies and Providers
- Basic contact information for Coordinating Agency and Provider staff

Provider Profile

The screenshot shows the Michigan Prevention Data System (MPDS) interface. The browser window title is 'MPDS - Windows Internet Explorer'. The address bar shows 'http://12.221.137.148/mpds/'. The page title is 'Michigan Prevention Data System'. The main content area is titled 'Provider Profile for Coordinating Agency: Riverhaven'. The profile includes the following information:

- Provider Name: Bay Regional Medical Center
- Provider License: 09111
- Operating Hours Start: 7:00 AM
- Operating Hours End: 10:00 PM
- Security Group: MPDSBRMC
- EIN: 77-7777777
- From: 1/1/1900
- to: 10/13/2011
- Days Allowed for Data Entry: 0
- Only Use Coordinating Agency Counties:
- Only Use Coordinating Agency School Districts:
- New Groups Require Approval:
- Providers can modify number of sessions:
- Provider can edit profile:
- Provider can edit Groups and Activities:

The address section includes:

- Street Address: 709 Ninth St.
- City: Bay City
- State: MICHIGAN
- Zip: 48708-_____

There are three sections for selection:

- Counties:** Select All, ARENAC, BAY, HURON, MONTCALM, SHIAWASSEE, TUSCOLA.
- School Districts:** Select All, Bangor Township Schools, Bay City School District, Bay County Psa, Bay-Arenac Community High School, Bay-Arenac Independent School District, Essexville-Hampton Public Schools, Pinconning Area Schools.
- Optional Data:** Select All, County, Indirect Speaking Engagement Count, Indirect Speaking Engagement Reach, Location Zip Code, Number Of Brochures Distributed, Number Of Original Items Created, School District, School-based Activity.

The navigation sidebar on the left shows a tree view of 'Organizations and People' under 'Riverhaven'. The 'Bay Regional Medical Center' entry is highlighted in yellow.

- Yellow indicates required field
- Red indicates error
- Mouse over the error for the error message
- Coordinator-only fields
 - Days allowed for Data entry
 - Checkboxes in top panel
- To and from dates indicate timeframe this Provider is associated with this Coordinating Agency
- If county selection allowed by Provider, it must match at least one for the associated Coordinating Agency
- School districts follow the same rule
- Optional (Activity) field selection impacted by other data selection
- Notes are for general information

Day-to-Day Use of MPDS

- Most of the time, people will not even look at the Organizations and People part of the application
- Data entry personnel will live in the Filter and Groups and Activities sections of the application
- In general the process will be:
 - Find Groups I'm interested in
 - Add/update Groups and Activities
 - Do it all over again
- Prevention Coordinators will review Groups and Activities and work with Reports

Group Filter

- Buttons (Apply/Refresh)
 - Apply invokes the filter selections and builds Groups and Activities
 - Refresh rebuilds Organizations and People
- All selection criteria is used in the form of "And" logic...all used items must match a group/activity for selection to occur.
- Dates
 - Can be disabled by clicking on the **label** and turning it grey. Instructions on mouse-over.
 - Easy to set invalid, non-overlapping dates
- Record Number
 - Exclusive search...all other criteria is ignored if non-zero record number is entered.
 - May have to check Show History to make it visible
- First tier selections
 - Build based on previous selections
- Second and third tier selections
 - Simply look for a matching group/activity
- Pin will lock the position of the search filter for continuous access
- Will collapse if unpinned and you click outside of the blue area (grey bar on top is best)

Group Filter

Apply Refresh Current User: MPDS\jgartee

Service Dates: 10/1/2011 12:00 AM to 9/30/2012 12:00 AM Record Number:

Approved Dates: 1/1/1900 to 12/31/9999

Verified Dates: 1/1/1900 to 12/31/9999

Entry Date: 1/1/1900 to 12/31/9999

Group Name:

Tobacco Related
 Approval Required
 Verification Required
 Not Tobacco Related
 Approval Not Required
 Verification Not Required
 Either
 Either
 Either

Coordinating Agencies	Providers	Staff	Counties	School Districts
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All	<input type="checkbox"/> Select All	<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> Detroit Department of H <input type="checkbox"/> Genesee County Commu <input type="checkbox"/> Kalamazoo Community M <input type="checkbox"/> Lakeshore Coordinating				

Group Types	Funding Sources	Service Domains	Program Type
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All	<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> One-Time <input type="checkbox"/> Ongoing-Other <input type="checkbox"/> Ongoing-Sequential	<input type="checkbox"/> SAPT Funded	<input type="checkbox"/> 1-Individual <input type="checkbox"/> 2-Family <input type="checkbox"/> 3-Peer <input type="checkbox"/> 4-School/Work <input type="checkbox"/> 5-Community	<input type="checkbox"/> Individual <input type="checkbox"/> Population

EBP Service Type	Service Setting	Service Population	Intervention Type
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All	<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> 1-NREPP Listed <input type="checkbox"/> 2-Other Federal Agency <input type="checkbox"/> 3-Peer Reviewed Journal <input type="checkbox"/> 4-Local (CA) Evidence <input type="checkbox"/> 5-CBP Best Practice	<input type="checkbox"/> Adult Corrections/Dententior <input type="checkbox"/> Alternative High School <input type="checkbox"/> Alternative Middle School/Ju <input type="checkbox"/> Church and/or Faith Center	<input type="checkbox"/> 04-Children Of S Abusers <input type="checkbox"/> 05-Delinquent/Violent Youth <input type="checkbox"/> 06-Economically Disadvanta <input type="checkbox"/> 13-Homeless/Runaway Youth	<input type="checkbox"/> Indicated <input type="checkbox"/> Selective <input type="checkbox"/> Universal-Direct <input type="checkbox"/> Universal-Indirect

Navigation

Navigating the Returned Data

- When a filter is applied (Apply Button), data is retrieved from the server
- Data is compiled into the Groups and Activities part of the Navigation tree
- Navigation is by Coordinating Agency, Provider, Group, and Activity
- The Show History checkbox allows us to see data that is not “current”

Navigation

- Allowed Coordinating Agencies shown in alphabetic order
- Allowed Providers shown in alphabetical order
- Groups in alphabetical order
- Activities shown in reverse chronological order for convenience to data entry personnel

Groups

- Cannot be created until a filter request has been applied
- All allowable organizations will appear in Navigation
 - Allows user to enter Groups and Activities to multiple organizations without constant return to the filter.
 - Save on every screen or it will not be a permanent change

One-time Groups

- Allows only one activity
- Group Name is the same as the Activity Name
- Only one activity is allowed.
- Limits the choices in Staff Strategy utilization in the Activity
- Demographics information on the Activity is disabled

Recurring Groups

- Group Type, Program Type, Intervention Type, Service Domain, and Service Population selections are all interrelated based on the rules in the Validation Matrix.
- Activity Staff Strategy utilization is limited based on the combination of the above, according to the Group Validation Matrix.

Group Data Entry

MPDS - Windows Internet Explorer
http://localhost:3479/mpdtestpage.aspx

Michigan Prevention Data System

Group Filter

Navigation

Show History

Groups and Activities

Riverhaven

Bay Regional Medical Center

New Recurring Group

New Recurring group

New Group - Activity #1

Catholic Charities of Shiawassee & Genesee Counties

Steve's Test Group

New Group - Activity #1

New Group - Activity #1

Catholic Charities All Stars

(3) - 10/11/2011 1:00 PM - Catholic Charities All Stars

(2) - 10/11/2011 1:00 PM - Catholic Charities All Stars

(1) - 10/4/2011 2:00 PM - Catholic Charities All Stars

Cherry Street Services, Inc.

Huron County Health Department

Shiawassee Family Court

Organizations and People

Reports

Group for (Coordinating Agency: Riverhaven) (Provider: Catholic Charities of Shiawassee & Genesee Counties)

Name: Catholic Charities All Stars

Approved: Enter date

Group Type: Ongoing-Sequential

Approved by:

Program Type: Individual

EBP Service Type: 7-None Of The Above

Intervention Type: Indicated

Funding Source: SAPT Funded

Service Domain: 2-Family

Minimum Activities Required to Complete: 4

Max Number of Activities Allowed: 4

Service Population(s)	Note
<input type="checkbox"/> 04-Children Of S Abusers	
<input type="checkbox"/> 05-Delinquent/Violent Youth	
<input type="checkbox"/> 06-Economically Disadvantaged	
<input type="checkbox"/> 13-Homeless/Runaway Youth	
<input checked="" type="checkbox"/> 16-People Using Substances	
<input type="checkbox"/> 17-People with Disabilities	
<input type="checkbox"/> 18-People with MH Problems	
<input type="checkbox"/> 19-Physically/Emotionally Abused	
<input type="checkbox"/> 20-Pregnant Women of Child Bearing Age	
<input type="checkbox"/> 24-School Dropouts	

Save Cancel Delete

- If approval is used (set in Provider profile), it is accessible only to Coordinating Agency users
 - Allows Provider user to create a group but Activities cannot be added until Coordinating Agency approves the Group
- Basic validations between Minimum and Maximum Activities allowed
- Maximum limits creation of new Activities
- Only Coordinating Agency user can change Maximum unless Provider profile is set to allow them to do so

Activities

- Can only be created by the user when the Group is recurring.
- One-time events can only have one Activity
- Name changes do not impact Group name on recurring Activities
- Sometimes referred to as Sessions...they mean the same thing.

Activity Data Entry

The screenshot displays the Michigan Prevention Data System (MPDS) web interface. The browser window shows the URL `http://localhost:3479/mpdstestpage.aspx`. The page title is "Michigan Prevention Data System".

Navigation Panel (Left):

- Group Filter
- Navigation
 - Show History
 - Groups and Activities
 - Riverhaven
 - Bay Regional Medical Center
 - New Recurring Group
 - New Recurring group
 - New Group - Activity #1
 - Catholic Charities of Shiawassee & Genesee Counties
 - Steve's Test Group
 - New Group - Activity #1
 - New Group - Activity #1
 - Catholic Charities All Stars
 - (3) - 10/11/2011 1:00 PM - Catholic Charities All Stars
 - (2) - 10/11/2011 1:00 PM - Catholic Charities All Stars
 - (1) - 10/4/2011 2:00 PM - Catholic Charities All Stars
 - Cherry Street Services, Inc.
 - Huron County Health Department
 - Shiawassee Family Court
 - Organizations and People
 - Reports

Main Content Area:

Activity for Group: Catholic Charities All Stars (Coordinating Agency: Riverhaven) (Provider: Catholic Charities of Shiawassee & Genesee Cour)

Activity ID: Catholic Charities All Stars Record Number: 82

Start Date/Time: 10/11/2011 1:00 PM Duration: 1 hour (4 Units) Tobacco Related

Total Attendees: 6 New Males: 3 New Females: 3

Est. People Reached: 0 Service Location: SHIAWASSEE

Attendees Completing Group: 0 Verified by: *unverified* at: Enter date

Staff Table:

Staff Member	Strategy Employed	Units
Click here to add new item		
Bostwick, Jessica	E02-Classroom Curriculum	4
		Total: 4

Race Table:

Count	Description
Click here to add new item	
3	White
3	Unknown/Other
Total: 6	

Ethnicity Table:

Count	Description
Click here to add new item	
6	Hispanic/Latino
Total: 6	

Participants by Age Table:

Count	Description
Click here to add new item	
1	0-4
5	5-11
Total: 6	

Optional Fields:

School District/Location: Perry Public School District School-based activity

- Navigation shows Activities in reverse chronological order
- A large number of validations are incorporated, which will be reviewed later.
- Name changes on the Activity are reflected in the Navigation in real time.
- If verification is used, record is locked from access to Providers after Verified is checked.
 - Verifier is automatically recorded
 - Date/time automatically recorded.
 - Accessible only to a Coordinating Agency user
- Optional fields, selected on the Provider profile, appear only when necessary
- Duration always generates in complete units (1 unit = 15 minutes)

Entering Activities Out of Order

- Supported behavior
- Activities cannot overlap in time
- Navigation will reflect the change immediately after pressing Save on the Activity.
- May cause some validation errors to pop up in subsequent sessions, due to running totals of new attendees, etc.
- If you make the activity the first, you should check the remaining activities to ensure they are still valid.
- Additional programmatic checks may be applied over time to support this behavior.

Validation Rules for Activities

- Strategies allowed dependent on how the Group is defined (See Validation Matrix).
- Individual Staff members unit count cannot exceed Activity duration.
- Multiple staff members strategy unit count may exceed duration.
- If Local MBO is used, it appears on the Staff Strategy utilization grid and is required (*Does not apply to WCHO*).
- Estimated reach validation rules detailed later
- Demographics grids for Race, Ethnicity, and Age tied to new male/new female counts. Note summary line on bottom of grid shows total used so far.
- Durations cannot exceed 24 hours

Estimated Reach Validation

Type of Activity	Strategy	Rules/Criteria for Use
Media Campaign	N02 – Supervision and technical assistance for development of PSA and other PI materials	<ul style="list-style-type: none"> • Enter the number of persons expected to hear/see/read the message. • Enter ER only one time per media campaign • ER can only be entered within an activity eligible for PDS entry (ie face-to-face). Media campaigns in themselves do not meet these criteria alone so the estimated reach must be entered under a planning meeting with someone from outside of your agency. • You must enter a number greater than 0 for attendees. The persons with whom you are meeting to plan/coordinate the campaign should be counted under Attendees
Media Interview	N07 Speaking engagement, indirect (radio or TV interview)	<ul style="list-style-type: none"> • Enter the number of persons expected to hear/see/read the coverage. • Enter ER only one time per media campaign • ER can only be entered under the activity record detailing the interview with the persons present counted under attendees and the message 'reach' entered under estimated reach. • You must enter a number greater than 0 for attendees.
Presentations to large groups	N01 Distribution of materials at events, presentation, interaction with participants	<ul style="list-style-type: none"> • If you have an exact count of participants (eg. sign in sheet) then you will NOT enter a number under ER. You will enter the number of participants under Attendees instead. • If you do NOT have an exact count of participants you will enter a guesstimate under ER and then enter a "0" in the New Attendees field. • Never enter a number greater than zero in both New Attendees and Estimated Reach.
	N06 – Speaking Engagement (direct) – Presentation about SUD	
Volunteer Activities	C04 – Conducting Training Services C08 – Coordinating and Monitoring Volunteers C08 – Coordinating and Monitoring Volunteers	<ul style="list-style-type: none"> • When volunteers are trained to provide a service you will enter the number of participants that you expect them to serve. This should be entered only one time per year. • You will NOT enter ER when conducting a training unless that training is directly linked to a provision of service that the volunteer has committed to conduct. • ER is ONLY entered for services with unpaid volunteers receiving no stipend.

Using Grids

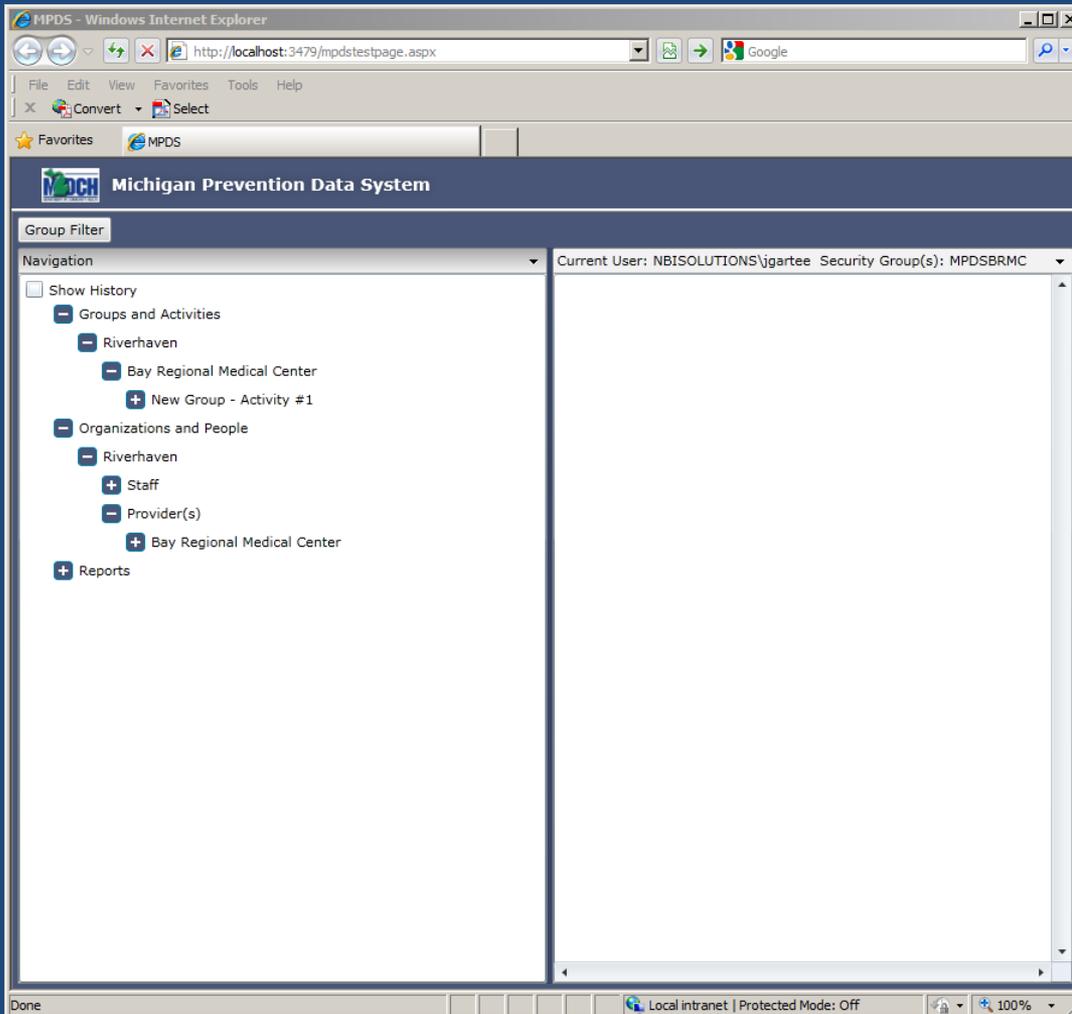
- Applies to Staff, Race, Ethnicity, and Age grids
- Click on the grey bar (Click here to add new item) to Add
- Select row with your mouse and press the Del key to remove a row.
- Validation errors keep you in the row
- Demographics become disabled when estimated reach is used.
- Grids allow filtering and sorting, if desired by the user.
- Use of Escape Key “cancels” an entry

Demonstration 1

Groups and Activities

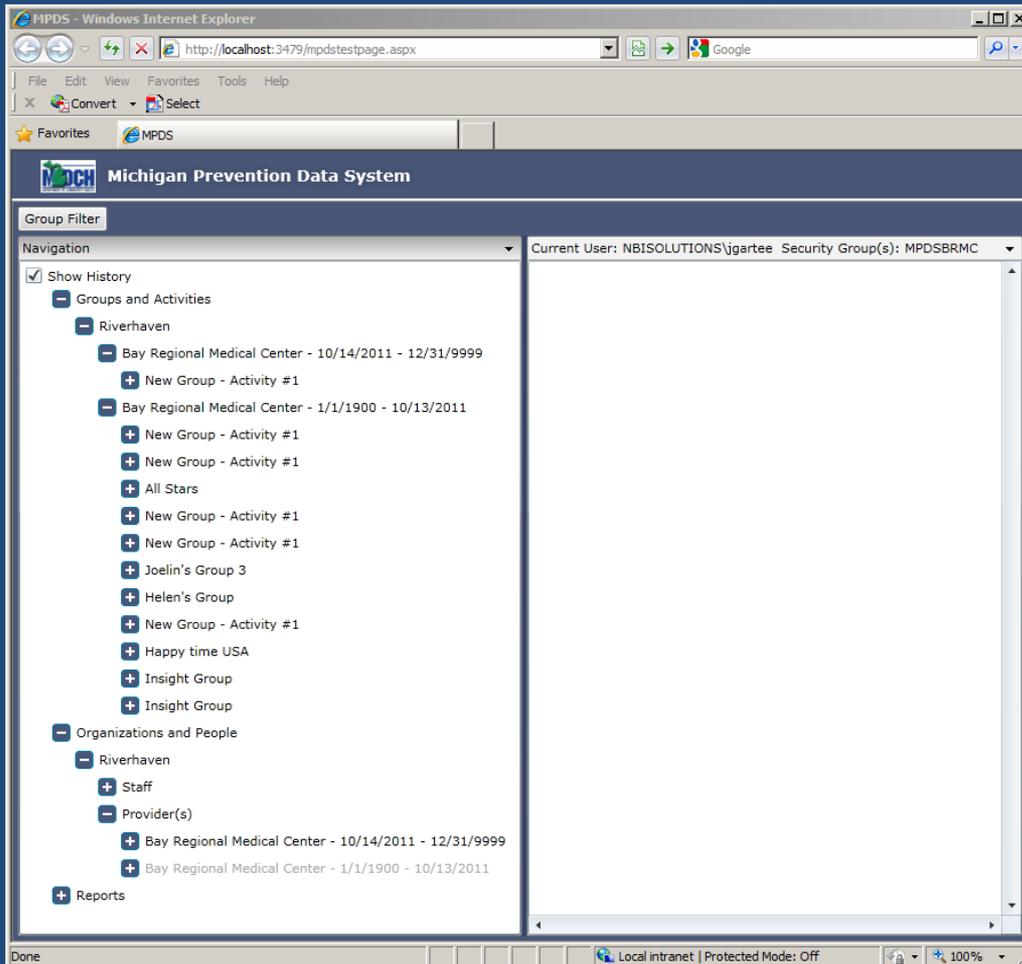
- Create a one-time Group
- Work with the various selections on the Activity that is automatically generated to see various error messages.
- Create a recurring group with more than one Activity.

Navigation without Show History



- Only currently-active Provider information is shown
- One instance of Bay Regional Medical Center is seen

Navigation With Show History



- Two timespan relationships of Bay Regional Medical Center to Coordinating Agency Riverhaven
 - First was from logical “beginning of time” (1/1/1900) to 10/13/2011
 - Second was from 10/14/2011 to logical “end of time” (12/31/9999)
 - Groups and Activities grouped by which timeframe they were created under
 - Possible to use this feature for fiscal year isolation
 - If a Provider is terminated, they will not be seen unless Show History is checked
 - Filtering criteria still apply.
- This example shows a user associated with a Provider
 - Can see only their data

Coordinating Agency User

- Prevention Coordinator data entry staff
- Can access any information for any Provider associated with their Coordinating Agency
- Agency-specific control information editable by Coordinating Agency user, not Provider
 - Days allowed for data entry
 - Feature control checkboxes
 - Selected counties, schools, and optional Activity data is specific to that Coordinating Agency/Provider relationship
- Can access only Groups and Activities created for that Coordinating Agency.
 - Riverhaven cannot see Macomb, for example

Provider User

- Can access any information related to this Provider
- Not dependent on which Coordinating Agency is involved
- Multiple Coordinating Agencies may appear in the Navigation tree after filter is applied
- Cannot modify Profile fields reserved to Coordinating Agency users, but can review them
- Cannot modify an activity flagged as Verified
- Cannot modify data outside of “Days allowed for Data Entry” setting in the Provider profile for the associated Coordinating Agency

Users with Multiple Associations

- Part of the security model
- User may be added to multiple Providers
- User may be added to multiple Coordinating Agencies
- Setup requires email request to MPDS Project Manager by CA wishing to allow access

Further Assistance

- For technical assistance, users can call their Prevention Coordinator
- For New User Setup, users can contact their Prevention Coordinator