

Homeland Security

National Fire Information Council (NFIC) Training

NFIRS Web Reporting Development

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Why a New Reporting System?

Rationale for New Reporting Framework

- Replacing an aging, expensive, proprietary system based on Actuate with newer, cheaper open source tools
 - Licensing costs for Actuate were prohibitive
 - Adding new reports was difficult and error prone
- Current closed architecture was not flexible
 - Portions of the current reports and SQL behind the reports was tailored to the capabilities of Actuate rather than streamlined for NFIRS
 - Open source report generator (JasperReports) is embedded in an application that is much more "NFIRS-aware"
- Moving to new, faster hardware to which the current licenses will not transfer



Live Demo

There are screenshots of this demo in the appendix of this handout



Future Efforts (1 of 5)

(In roughly time-order)

- Retrieve, change, and re-submit previous reports
 - Will be live when the system is released
- Online Analytical Processing (OLAP) Cubes
 - Currently, the reporting database is almost a mirror of production, but going forward, it will be optimized on the server side for reporting
 - Data cubes (dimensions)
 - Better organization for reporting
 - Data ordered by day, month, quarter, year
 - FDID, groups and states
 - Develop pivot tables and "measures" for commonly derived data
 - Pre-compute items such as day of week, individual arrival (elapsed) time, average arrival times, incident key fields (as an aggregate)



Future Efforts (2 of 5)

- Many more module fields available for filters
 - Almost all module fields available for most reports such as zip codes, street names, personnel names, person involved names, shift, alarms, etc.
 - Any module field can be made available as a filter so long as it doesn't otherwise invalidate the report (e.g., Won't be able to select mutual aid types for the Mutual Aid Incidents report)
 - Additional "fields" such as last-saved date and created-by name



Future Efforts (3 of 5)

- More options for the filter fields
 - OR-ing allows for multiple text line input (for making lists of names, streets, zip codes, coded-fields, etc.)
 - "Wildcarding" of text fields (starts with, ends with and contains)
 - Case sensitive and case insensitive searches
 - AND-ing and OR-ing of most filters as well as NOT
- Saving of partial templates of reports and report filters
- Textual explanation of the ad-hoc filters and groups as they are being constructed



Future Efforts (4 of 5)

- New reports (partial list):
 - Fire Dept's identified by vendor software used.
 - Wildland fire report summarizing acres burned from both fire and wildland modules.
 - Reporting on same FDID activity over multiple years. (Essentially a "same-store sales" report, but for fire dept's compares activity to the same month of previous year to indicate trends.)
 - Statewide reporting status level (which is currently available only at the US level) to show amount of data reported and released in the national DB by FDID
 - Various data quality reports (e.g., large dollar loss, response time)



Future Efforts (5 of 5)

- Exporting/Sharing report templates & filters
 - Initial implementation may be a simple export to file/import from file scheme
 - Online sharing with library of templates and filters published by NFIRS program office, state program office and on down to a dept
- Scheduled reports
 - Reports can be scheduled to run daily, weekly, monthly and yearly with parameterized date fields for from/to dates.
 - Parameterization of other fields such as a list of FDIDs or groups (or lists of lists)



And Finally ...

- We would like to hear from you concerning:
 - Reports that you and your departments need that are currently not available to you
 - Which fields you and your departments need most (or other data in the national DB you would like to be able to select incidents on)
 - Any other concerns regarding the new reporting system
- Send email to: Dave Marron at david.marron@associates.dhs.gov



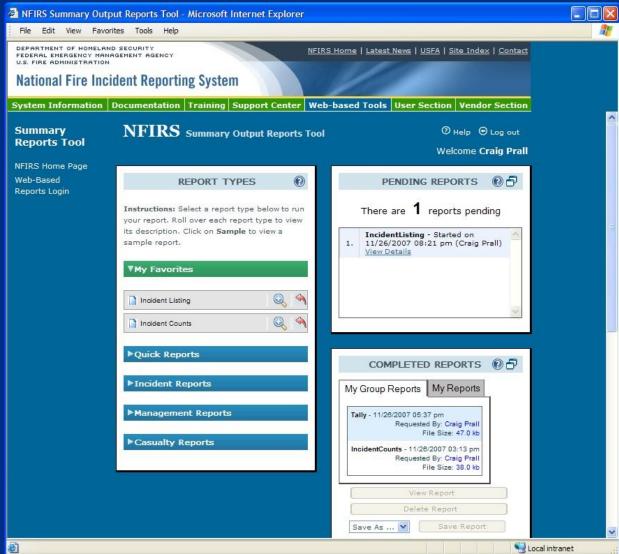
Appendix



Main Reporting Page

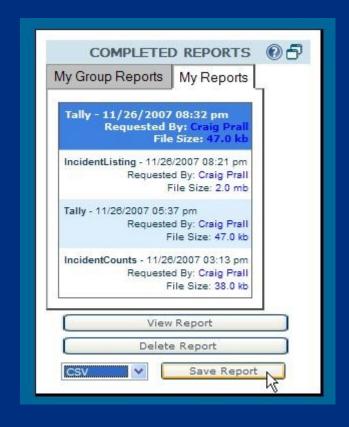
- Everything in one place
 - Available reports
 - Pending reports
 - Completed reports
- Contextsensitive help
- Sample reports





Completed Report Panel

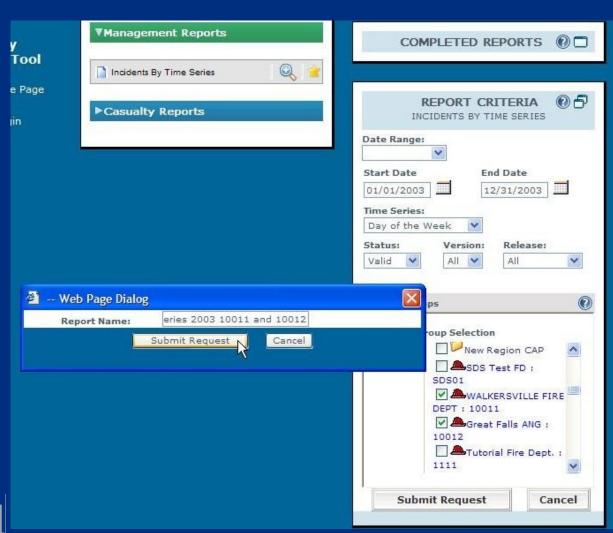
- List Reports That Have Completed Processing
- View Report
- Delete Report
- Save Report
 - PDF
 - CSV
 - XLS
 - XML
 - RTF





Basic Filters Panel

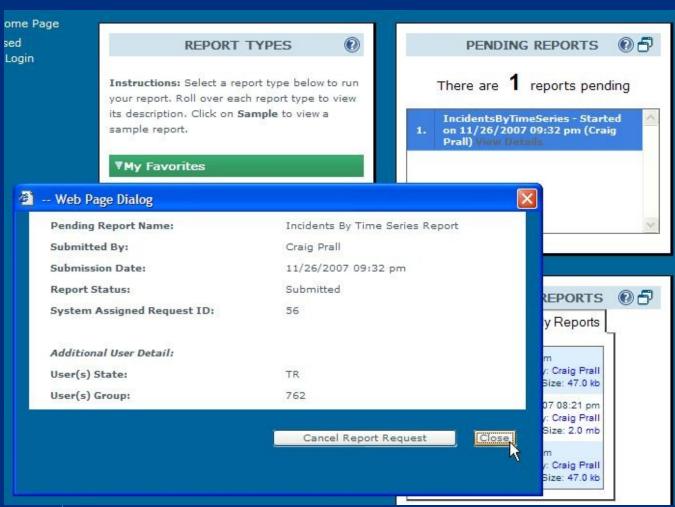
- Allows typical filters to be entered quickly
- Reports can be named





Pending Reports Panel

- View status of submitted reports
- Cancel reports in progress (future)





Ad-Hoc Filters Page

- Additional filters
 - Going to be many more filters in the future (more complex)
- Filters and groups are "live"
 - Clicking on one shows its values in the other areas





Context-Sensitive Help

