

Damage and Loss Assessment Software for Post Flood in Jakarta (JAKSAFE)

User Manual

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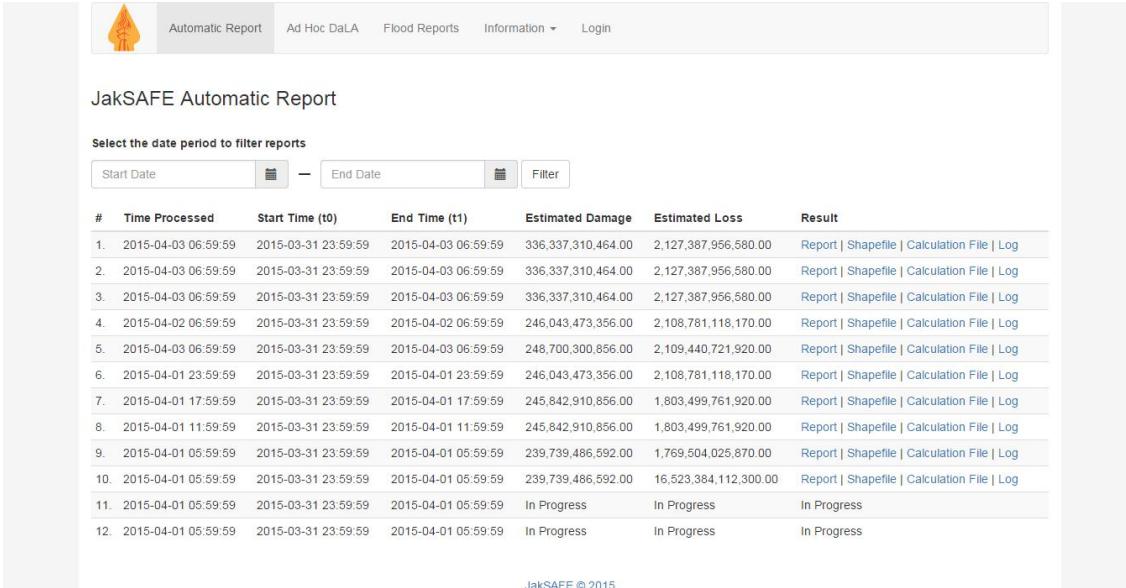
1 Introduction

JakSAFE service will start automatically and calculate the DaLA every 6 hours. It will calculate DaLA using the predefined input and parameters. The input and other parameters can be viewed and configured on JakSAFE user interface.

JakSAFE Interface is a web application to view the result of automatic calculation, start an ad hoc calculation, view historical flood event, and configure the parameter and input of DaLA calculation.

2 Open JakSAFE web Application

- Open Browser
- Go to <http://192.168.1.234> (*change to production url*)



The screenshot shows the JakSAFE Automatic Report landing page. At the top, there is a navigation bar with icons for Automatic Report, Ad Hoc DaLA, Flood Reports, Information, and Login. Below the navigation bar, the title "JakSAFE Automatic Report" is displayed. Underneath the title, there is a section titled "Select the date period to filter reports" with fields for "Start Date" and "End Date" and a "Filter" button. The main content area is a table listing 12 rows of automatic report results. The columns in the table are: #, Time Processed, Start Time (t0), End Time (t1), Estimated Damage, Estimated Loss, and Result. Each row contains a timestamp, two time points, and numerical values for damage and loss, followed by links for Report, Shapefile, Calculation File, and Log. The last three rows show status as "In Progress". At the bottom of the page, a copyright notice "JakSAFE © 2015" is visible.

#	Time Processed	Start Time (t0)	End Time (t1)	Estimated Damage	Estimated Loss	Result
1.	2015-04-03 06:59:59	2015-03-31 23:59:59	2015-04-03 06:59:59	336,337,310,464.00	2,127,387,956,580.00	Report Shapefile Calculation File Log
2.	2015-04-03 06:59:59	2015-03-31 23:59:59	2015-04-03 06:59:59	336,337,310,464.00	2,127,387,956,580.00	Report Shapefile Calculation File Log
3.	2015-04-03 06:59:59	2015-03-31 23:59:59	2015-04-03 06:59:59	336,337,310,464.00	2,127,387,956,580.00	Report Shapefile Calculation File Log
4.	2015-04-02 06:59:59	2015-03-31 23:59:59	2015-04-02 06:59:59	246,043,473,356.00	2,108,781,118,170.00	Report Shapefile Calculation File Log
5.	2015-04-03 06:59:59	2015-03-31 23:59:59	2015-04-03 06:59:59	248,700,300,856.00	2,109,440,721,920.00	Report Shapefile Calculation File Log
6.	2015-04-01 23:59:59	2015-03-31 23:59:59	2015-04-01 23:59:59	246,043,473,356.00	2,108,781,118,170.00	Report Shapefile Calculation File Log
7.	2015-04-01 17:59:59	2015-03-31 23:59:59	2015-04-01 17:59:59	245,842,910,856.00	1,803,499,761,920.00	Report Shapefile Calculation File Log
8.	2015-04-01 11:59:59	2015-03-31 23:59:59	2015-04-01 11:59:59	245,842,910,856.00	1,803,499,761,920.00	Report Shapefile Calculation File Log
9.	2015-04-01 05:59:59	2015-03-31 23:59:59	2015-04-01 05:59:59	239,739,486,592.00	1,769,504,025,870.00	Report Shapefile Calculation File Log
10.	2015-04-01 05:59:59	2015-03-31 23:59:59	2015-04-01 05:59:59	239,739,486,592.00	16,523,384,112,300.00	Report Shapefile Calculation File Log
11.	2015-04-01 05:59:59	2015-03-31 23:59:59	2015-04-01 05:59:59	In Progress	In Progress	In Progress
12.	2015-04-01 05:59:59	2015-03-31 23:59:59	2015-04-01 05:59:59	In Progress	In Progress	In Progress

Figure 1. JakSAFE web application landing page

3 Automatic Report

3.1 Description

Landing page of JakSAFE web application (Figure 1). This page shows the list of automatic calculation that have been done or in progress. This page can be accessed by public and registered user.

3.2 Automatic Report Filter

Feature to filter the automatic report based on the start time (t0).

Damage and Loss Assessment Software for Post Flood in Jakarta (JAKSAFE)

JakSAFE Automatic Report

Select the date period to filter reports

#	Time Processed	Start Time (t0)	End Time (t1)	Estimated Damage	Estimated Loss	Result
1.	2015-04-03 06:59:59	2015-03-31 23:59:59	2015-04-03 06:59:59	336,337,310,464.00	2,127,387,956,580.00	Report Shapefile Calculation File Log

Figure 2. Automatic report filter

- Enter Start Date. Click calendar icon, then select the date. Date format is YYYY-MM-DD.

JakSAFE Automatic Report

Select the date period to filter reports

2015-04-01 — 2015-04-02

April 2015

Su	Mo	Tu	We	Th	Fr	Sa	(t0)	End Time (t1)	E
29	30	31	1	2	3	4	23:59:59	2015-04-01 05:59:59	In
5	6	7	8	9	10	11	23:59:59	2015-04-01 05:59:59	3
12	13	14	15	16	17	18			
19	20	21	22	23	24	25			
26	27	28	29	30	1	2			
3	4	5	6	7	8	9			

Figure 3. Select start date

- Enter End Date. Click calendar icon, then select the date. Date format is YYYY-MM-DD.
- Click Filter
- Filtered result will be shown in automatic report table.

Showing reports for date period: 2015-03-31 00:00:00 - 2015-04-02 23:59:59

JakSAFE Automatic Report

Select the date period to filter reports

#	Time Processed	Start Time (t0)	End Time (t1)	Estimated Damage	Estimated Loss	Result
1.	2015-04-01 05:59:59	2015-03-31 23:59:59	2015-04-01 05:59:59	In Progress	In Progress	In Progress
2.	2015-04-01 05:59:59	2015-03-31 23:59:59	2015-04-01 05:59:59	330,533,556,592.00	2,129,171,252,520.00	Report Shapefile Calculation File Log

Figure 4. Result of filtering automatic report

3.3 Automatic Report Table

The screenshot shows a web-based application titled "JakSAFE Automatic Report". At the top, there is a navigation bar with icons for fire, automatic report, ad hoc DaLA, flood reports, information, and login. Below the navigation bar, the title "JakSAFE Automatic Report" is displayed. A search/filter section allows users to "Select the date period to filter reports" using "Start Date" and "End Date" fields and a "Filter" button. The main content area is a table listing 12 rows of data. The columns are: #, Time Processed, Start Time (t0), End Time (t1), Estimated Damage, Estimated Loss, and Result. Each row contains a unique ID (1-12), a timestamp for processing, and specific dates for the flood event. The estimated damage and loss values are listed in millions of Indonesian Rupiah (IDR). The "Result" column provides links to download various files: Report (PDF), Shapefile (GIS), Calculation File (XML), and Log (text file).

#	Time Processed	Start Time (t0)	End Time (t1)	Estimated Damage	Estimated Loss	Result
1.	2015-04-03 06:59:59	2015-03-31 23:59:59	2015-04-03 06:59:59	336,337,310,464.00	2,127,387,956,580.00	Report Shapefile Calculation File Log
2.	2015-04-03 06:59:59	2015-03-31 23:59:59	2015-04-03 06:59:59	336,337,310,464.00	2,127,387,956,580.00	Report Shapefile Calculation File Log
3.	2015-04-03 06:59:59	2015-03-31 23:59:59	2015-04-03 06:59:59	336,337,310,464.00	2,127,387,956,580.00	Report Shapefile Calculation File Log
4.	2015-04-02 06:59:59	2015-03-31 23:59:59	2015-04-02 06:59:59	246,043,473,356.00	2,108,781,118,170.00	Report Shapefile Calculation File Log
5.	2015-04-03 06:59:59	2015-03-31 23:59:59	2015-04-03 06:59:59	248,700,300,856.00	2,109,440,721,920.00	Report Shapefile Calculation File Log
6.	2015-04-01 23:59:59	2015-03-31 23:59:59	2015-04-01 23:59:59	246,043,473,356.00	2,108,781,118,170.00	Report Shapefile Calculation File Log
7.	2015-04-01 17:59:59	2015-03-31 23:59:59	2015-04-01 17:59:59	245,842,910,856.00	1,803,499,761,920.00	Report Shapefile Calculation File Log
8.	2015-04-01 11:59:59	2015-03-31 23:59:59	2015-04-01 11:59:59	245,842,910,856.00	1,803,499,761,920.00	Report Shapefile Calculation File Log
9.	2015-04-01 05:59:59	2015-03-31 23:59:59	2015-04-01 05:59:59	239,739,486,592.00	1,769,504,025,870.00	Report Shapefile Calculation File Log
10.	2015-04-01 05:59:59	2015-03-31 23:59:59	2015-04-01 05:59:59	239,739,486,592.00	16,523,384,112,300.00	Report Shapefile Calculation File Log
11.	2015-04-01 05:59:59	2015-03-31 23:59:59	2015-04-01 05:59:59	In Progress	In Progress	In Progress
12.	2015-04-01 05:59:59	2015-03-31 23:59:59	2015-04-01 05:59:59	In Progress	In Progress	In Progress

JakSAFE © 2015

Figure 5. Automatic report table

A table to display the automatic report.

1. **#**, the record index.
2. **Time processed**, time when the calculation process is started.
3. **Start time (t0)**, start period of flood event.
4. **End time (t1)**, end period of flood event.
5. **Estimated Damage**, total estimated damage during the flood period. '*In Progress*' means that the calculation is not completed yet.
6. **Estimated Loss**, total estimated loss during the flood period. '*In Progress*' means that the calculation is not completed yet.
7. **Result**, several link to download the result of automatic calculation.
 - a. **Report**, link to download the pdf report.
 - b. **Shapefile**, link to download shapefile of hazard and impact analysis result.
 - c. **Calculation File**, link to download the detail of DaLA calculation.
 - d. **Log**, link to download the log file of automatic calculation process.

3.4 View Automatic Result

JakSAFE Automatic Report

The screenshot shows a simplified version of the JakSAFE interface for viewing automatic results. It features a search/filter section at the top with "Start Date" and "End Date" fields and a "Filter" button. Below this is a table with a single row of data. The columns are: #, Time Processed, Start Time (t0), End Time (t1), Estimated Damage, Estimated Loss, and Result. The data row corresponds to the last entry in Figure 5. The "Result" column contains a single link: [Report](#) | [Shapefile](#) | [Calculation File](#) | [Log](#).

#	Time Processed	Start Time (t0)	End Time (t1)	Estimated Damage	Estimated Loss	Result
1.	2015-04-01 05:59:59	2015-03-31 23:59:59	2015-04-01 05:59:59	330,533,556,592.00	2,129,171,252,520.00	Report Shapefile Calculation File Log

Figure 6. View result of Automatic DaLA

3.4.1 Download DaLA report

- Find the automatic report.
- Click **Report** at result column. DaLA report contains the summary of damage and loss of each asset in DKI Jakarta and detailed DaLA in each city of DKI Jakarta. The loss of insurance is also shown in this pdf report.

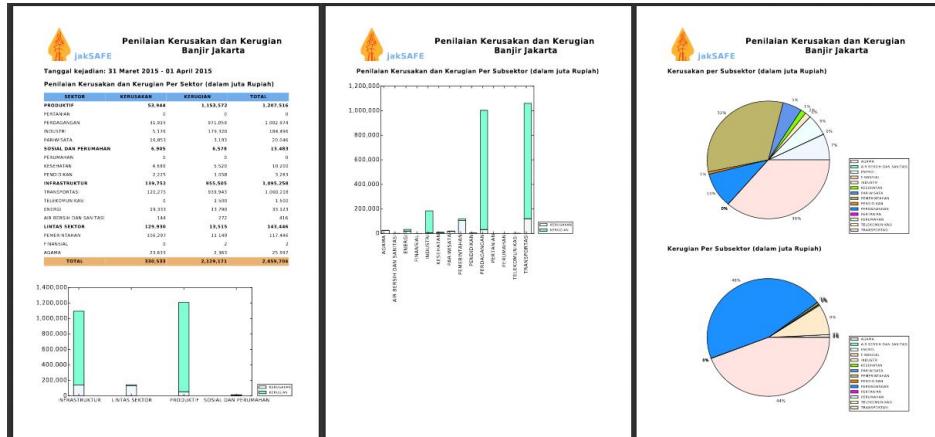


Figure 7. DaLA report sample

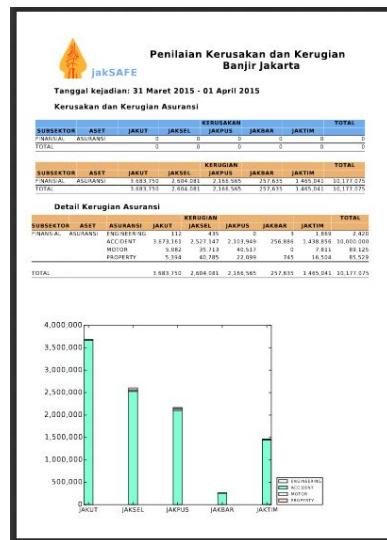


Figure 8. Loss of insurance assets

3.4.2 Download and View Shapefile

3.4.2.1 Download shapefile

- Find the automatic report.
- Click **Shapefile** at result column. Shapefile contains the summary of damage and loss of each asset in DKI Jakarta and detailed DaLA in each city of DKI Jakarta. The loss of insurance is also shown in this pdf report.
- Save the zipped shapefile.

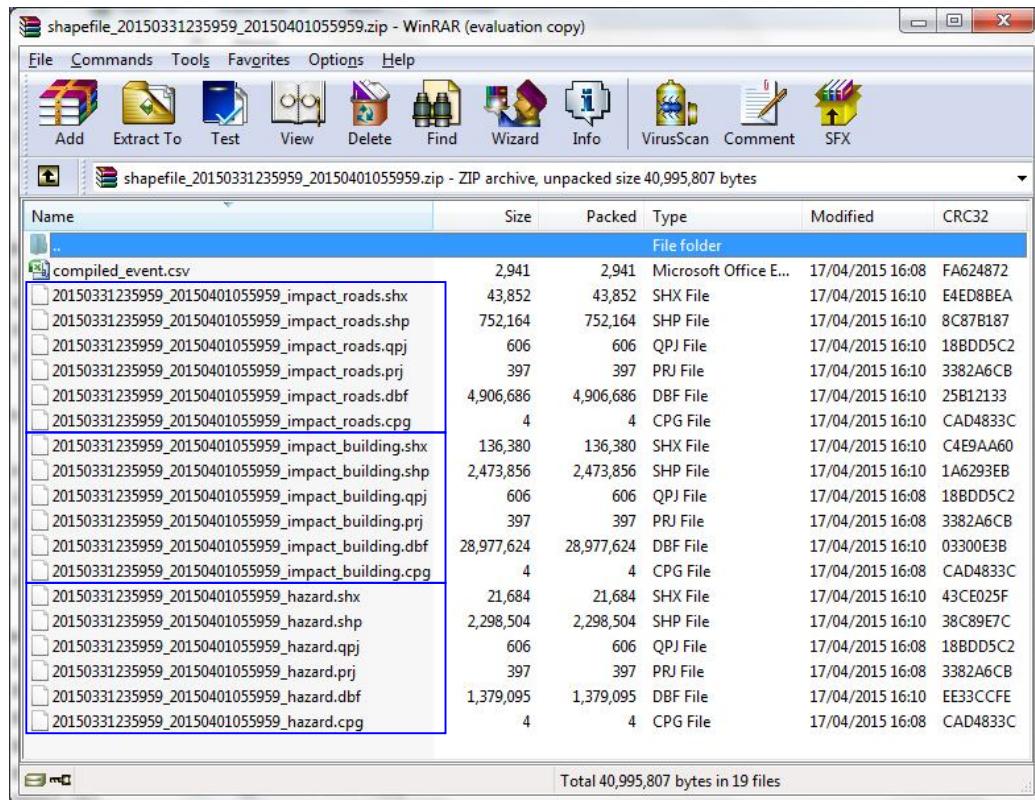


Figure 9. Zipped Shapefile Contents

3.4.2.2 View shapefile

1. Extract the downloaded zip file which consists of compiled_event.csv, impact_road.shp, impact_building.shp, and hazard.shp.
2. Open compiled event using spreadsheet application or text editor. This file contains the compiled flood report during the flood period (t0-t1).

	A	B	C	D	E
1	unit	mean_depth	count	duration	kelas
2	3171060006001000	30	1	0.25	A1
3	3171060006002000	30	1	0.25	A1
4	3171060006007000	30	1	0.25	A1
5	3171060006009000	30	1	0.25	A1
6	3171060007001000	30	1	0.25	A1
7	3171060007002000	30	1	0.25	A1
8	3171060007003000	30	1	0.25	A1
9	3171060007004000	30	1	0.25	A1
10	3171060007008000	30	1	0.25	A1
11	3171070003001000	30	1	0.25	A1
12	3171070003002000	30	1	0.25	A1

Figure 10. compiled_event.csv

3. Open hazard.shp using GIS application. It contains the result of hazard compilation.

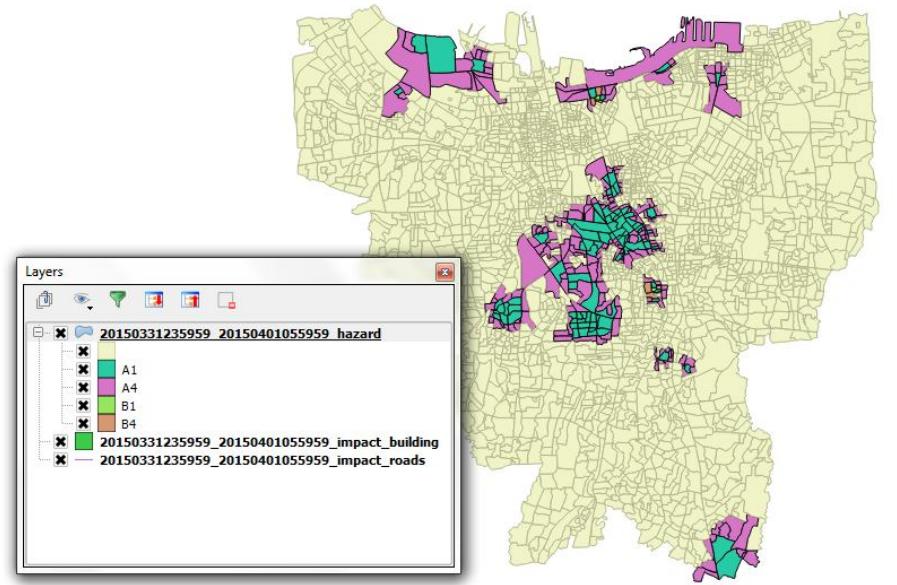


Figure 11. Hazard shapefile (opened using QGIS)

4. Open impact_road.shp using GIS application. It contains the impact analysis result of road exposure.

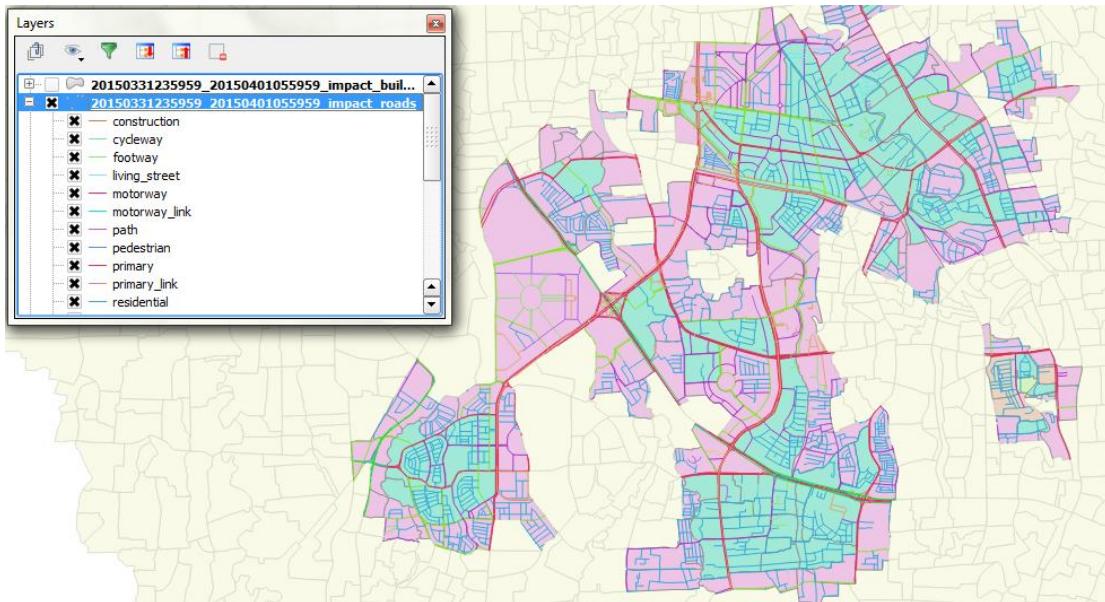


Figure 12. Impact road shapefile (opened using QGIS)

5. Open impact_building.shp using GIS application. It contains the impact analysis result of building exposure.

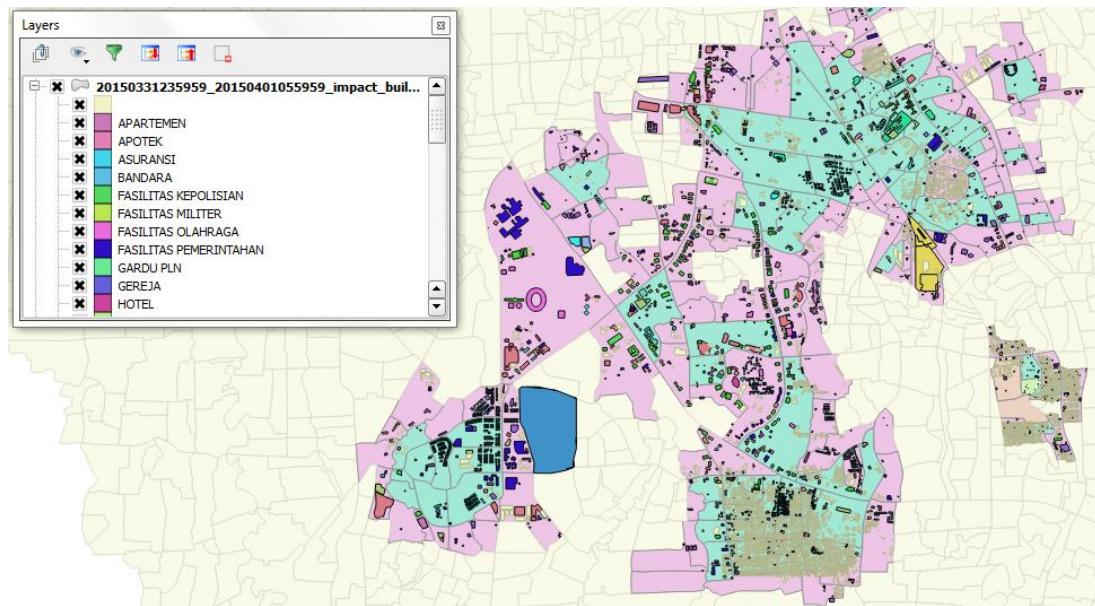


Figure 13. Impact building shapefile (opened using QGIS)

3.4.3 Download and View Calculation file

3.4.3.1 Download calculation file

1. Find the automatic report.
2. Click **Calculation file** at result column.
3. Save the zipped calculation file.

Name	Size	Packed	Type	Modified	CRC32
osm_road_impact.csv	507,628	507,628	Microsoft Office E...	17/04/2015 16:10	934FBB5D
osm_impact.csv	1,208,854	1,208,854	Microsoft Office E...	17/04/2015 16:10	BF7BAE5E
dala_transportasi_20150331235959_20150401055959.csv	837,399	837,399	Microsoft Office E...	17/04/2015 16:11	FD515136
dala_telekomunikasi_20150331235959_20150401055959.csv	29,707	29,707	Microsoft Office E...	17/04/2015 16:11	A601A002
dala_perumahan_20150331235959_20150401055959.csv	722	722	Microsoft Office E...	17/04/2015 16:11	9EC47625
dala_pertanian_20150331235959_20150401055959.csv	350	350	Microsoft Office E...	17/04/2015 16:11	616094E6
dala_perdagangan_20150331235959_20150401055959.csv	21,261	21,261	Microsoft Office E...	17/04/2015 16:11	076A1E09
dala_pendidikan_20150331235959_20150401055959.csv	30,698	30,698	Microsoft Office E...	17/04/2015 16:11	32B13CC3
dala_pemerintahan_20150331235959_20150401055959.csv	38,485	38,485	Microsoft Office E...	17/04/2015 16:11	4CEDEA2C
dala_pariwisata_20150331235959_20150401055959.csv	5,553	5,553	Microsoft Office E...	17/04/2015 16:11	984F73E0
dala_kesehatan_20150331235959_20150401055959.csv	8,496	8,496	Microsoft Office E...	17/04/2015 16:11	523B02A2
dala_industri_20150331235959_20150401055959.csv	28,613	28,613	Microsoft Office E...	17/04/2015 16:11	1B8EBD11
dala_finansial_20150331235959_20150401055959.csv	28,474	28,474	Microsoft Office E...	17/04/2015 16:11	3DC571E3
dala_energi_20150331235959_20150401055959.csv	636	636	Microsoft Office E...	17/04/2015 16:11	66FED87E
dala_asuransi_20150331235959_20150401055959.csv	912,048	912,048	Microsoft Office E...	17/04/2015 16:11	667412EF
dala_air_bersih_dan_sanitasi_20150331235959_20150401055959.csv	6,668	6,668	Microsoft Office E...	17/04/2015 16:11	E7D990B4
dala_agama_20150331235959_20150401055959.csv	38,241	38,241	Microsoft Office E...	17/04/2015 16:11	397639EA
dala_20150331235959_20150401055959.csv	1,074,409	1,074,409	Microsoft Office E...	17/04/2015 16:11	A062E0E7
agg_impact.csv	38,084	38,084	Microsoft Office E...	17/04/2015 16:10	70960B9C

Figure 14. Contents of zipped calculation file

3.4.3.2 View calculation files

1. Extract the downloaded zip file which consists of osm_road_impact.csv, osm_impact.csv, agg_impact.csv, dala_subsector.csv, and dala.csv.
2. Open osm_road_impact.csv using spreadsheet application or text editor. It contains the summary of location and length of affected road.

	A	B	C	D	E	F	G	H	I
1	NAMA_JALAN	PANJANG	KELAS_DAMPAK	PROVINSI	KOTA	KECAMATAN	KELURAHAN	RW	RT
2	NULL	149.1609348	A4	DKI JAKARTA	JAKARTA BARAT	CENGKARENG	CENGKARENG TIMUR	RW 14	NULL
3	NULL	144.7146554	A4	DKI JAKARTA	JAKARTA BARAT	CENGKARENG	CENGKARENG TIMUR	RW 14	NULL
4	NULL	455.1650727	A4	DKI JAKARTA	JAKARTA BARAT	CENGKARENG	CENGKARENG TIMUR	RW 14	NULL
5	NULL	68.73259975	A4	DKI JAKARTA	JAKARTA BARAT	CENGKARENG	CENGKARENG TIMUR	RW 14	NULL
6	NULL	21.74584735	A4	DKI JAKARTA	JAKARTA BARAT	CENGKARENG	CENGKARENG TIMUR	RW 14	NULL
7	NULL	66.48878011	A4	DKI JAKARTA	JAKARTA BARAT	CENGKARENG	CENGKARENG TIMUR	RW 14	NULL
8	NULL	56.49423242	A4	DKI JAKARTA	JAKARTA BARAT	CENGKARENG	CENGKARENG TIMUR	RW 14	NULL
9	NULL	41.80740354	A4	DKI JAKARTA	JAKARTA BARAT	CENGKARENG	CENGKARENG TIMUR	RW 14	NULL

Figure 15. osm_road_impact.csv

3. Open osm_impact.csv using spreadsheet application or text editor. It contains the summary of location and number of affected building which analyzed using shapefile impact analysis.

	A	B	C	D	E	F	G	H	I
1	PROVINSI	KOTA	KECAMATAN	KELURAHAN	SUBSEKTOR	ASET	KELAS_DAMPAK	JUMLAH_ASET	KOEFISIEN
2	DKI JAKARTA	JAKARTA UTARA	PENJARINGAN	KAMAL MUARA	NULL	A4		1	1
3	DKI JAKARTA	JAKARTA UTARA	PENJARINGAN	KAMAL MUARA	NULL	A4		1	1
4	DKI JAKARTA	JAKARTA BARAT	CENGKARENG	CENGKARENG TIMUR	PERUMAHAN	APARTEMEN	A4	1	1
5	DKI JAKARTA	JAKARTA BARAT	CENGKARENG	CENGKARENG TIMUR	PERUMAHAN	APARTEMEN	A4	1	1
6	DKI JAKARTA	JAKARTA BARAT	CENGKARENG	CENGKARENG TIMUR	PERUMAHAN	APARTEMEN	A4	1	1
7	DKI JAKARTA	JAKARTA BARAT	CENGKARENG	CENGKARENG TIMUR	PERUMAHAN	APARTEMEN	A4	1	1
8	DKI JAKARTA	JAKARTA BARAT	CENGKARENG	CENGKARENG TIMUR	PERUMAHAN	APARTEMEN	A4	1	1
9	DKI JAKARTA	JAKARTA BARAT	CENGKARENG	CENGKARENG TIMUR	PERUMAHAN	APARTEMEN	A4	1	1

Figure 16. osm_impact.csv

4. Open agg_impact.csv using spreadsheet application or text editor. It contains the location and number of affected building which analyzed using aggregate analysis.

	A	B	C	D	E	F	G	H	I
1	PROVINSI	KOTA	KECAMATAN	KELURAHAN	SUBSEKTOR	ASET	KELAS_DAMPAK	JUMLAH_ASET	KOEFISIEN
2	DKI JAKARTA	JAKARTA BARAT	CENGKARENG	CENGKARENG TIMUR	KESEHATAN PUSKESMAS	A1		1	0.8
3	DKI JAKARTA	JAKARTA BARAT	CENGKARENG	CENGKARENG TIMUR	KESEHATAN PUSKESMAS	A1		1	1
4	DKI JAKARTA	JAKARTA BARAT	CENGKARENG	CENGKARENG TIMUR	KESEHATAN RUMAH SAKIT	A1		1	1
5	DKI JAKARTA	JAKARTA BARAT	CENGKARENG	CENGKARENG TIMUR	KESEHATAN RUMAH SAKIT	A1		1	1.5
6	DKI JAKARTA	JAKARTA PUSAT	CEMPAKA PUTIH	RAWASARI	KESEHATAN PUSKESMAS	A1		1	0.8
7	DKI JAKARTA	JAKARTA PUSAT	CEMPAKA PUTIH	RAWASARI	KESEHATAN PUSKESMAS	A1		1	1
8	DKI JAKARTA	JAKARTA PUSAT	CEMPAKA PUTIH	RAWASARI	KESEHATAN RUMAH SAKIT	A1		1	1
9	DKI JAKARTA	JAKARTA PUSAT	CEMPAKA PUTIH	RAWASARI	KESEHATAN RUMAH SAKIT	A1		1	1.5

Figure 17. agg_impact.csv

5. Open dala_subsektor.csv using spreadsheet application or text editor. It contains the result of damage and loss calculation for each affected assets in every subsector.

A	B	C	D	E	F	G	H	I
1 ASET	KECAMATAN	KELURAHAN	KERUGIAN	KERUSAKAN	KOEFISIEN	KOTA	PROVINSI	SUBSEKTOR
2 FASILITAS OLAHRAGA PENJARINGAN		KAPUK MUARA	5400000	0		1 JAKARTA UTARA	DKI JAKARTA	PENDIDIKAN
3 FASILITAS OLAHRAGA TANAH ABANG		GELORA	5400000	0		1 JAKARTA PUSAT	DKI JAKARTA	PENDIDIKAN
4 FASILITAS OLAHRAGA TANAH ABANG		GELORA	5400000	0		1 JAKARTA PUSAT	DKI JAKARTA	PENDIDIKAN
5 FASILITAS OLAHRAGA TANAH ABANG		GELORA	5400000	0		1 JAKARTA PUSAT	DKI JAKARTA	PENDIDIKAN
6 FASILITAS OLAHRAGA TANAH ABANG		GELORA	5400000	0		1 JAKARTA PUSAT	DKI JAKARTA	PENDIDIKAN
7 FASILITAS OLAHRAGA SETIA BUDI		KARET SEMANGGI	4500000	90000000		1 JAKARTA SELATAN	DKI JAKARTA	PENDIDIKAN
8 FASILITAS OLAHRAGA SETIA BUDI		KARET KUNINGAN	4500000	90000000		1 JAKARTA SELATAN	DKI JAKARTA	PENDIDIKAN
9 FASILITAS OLAHRAGA SETIA BUDI		KUNINGAN TIMUR	4500000	90000000		1 JAKARTA SELATAN	DKI JAKARTA	PENDIDIKAN

Figure 18. dala_subsektor.csv

6. Open dala.csv using spreadsheet application or text editor. It contains the result of damage and loss calculation for all affected assets.

3.4.4 Download and View Log file

1. Find the automatic report.
2. Click **Log** at result column.
3. Save the log file.
4. Open log file using text editor.

```
dala_20150203175959_20150203235959.log - Notepad2 (Administrator)
File Edit View Settings ?
293 2015-04-16 10:38:38,854 - jakservice.post_processing.hazard - INFO - Hazard.percent_agg
294 2015-04-16 10:38:39,039 - jakservice.post_processing.dala - INFO - SPBU
295 2015-04-16 10:38:39,039 - jakservice.post_processing.dala - INFO - Dala.dala_satu
296 2015-04-16 10:38:39,082 - jakservice.post_processing.dala - INFO - GARDU PLN
297 2015-04-16 10:38:39,082 - jakservice.post_processing.dala - INFO - Dala.dala_satu
298 2015-04-16 10:38:39,124 - jakservice.post_processing.dala - INFO - POMPA AIR
299 2015-04-16 10:38:39,125 - jakservice.post_processing.dala - INFO - Dala.dala_satu
300 2015-04-16 10:38:39,169 - jakservice.post_processing.dala - INFO - INSTALASI PDAM
301 2015-04-16 10:38:39,169 - jakservice.post_processing.dala - INFO - Dala.dala_satu
302 2015-04-16 10:38:39,175 - jakservice.post_processing.dala - INFO - Dala.dala_nol
303 2015-04-16 10:38:39,181 - jakservice.post_processing.dala - INFO - TANGGUL AIR
304 2015-04-16 10:38:39,181 - jakservice.post_processing.dala - INFO - Dala.dala_satu
305 2015-04-16 10:38:39,188 - jakservice.post_processing.dala - INFO - Dala.dala_nol
306 2015-04-16 10:38:39,199 - jakservice.post_processing.dala - INFO - MCK
307 2015-04-16 10:38:39,199 - jakservice.post_processing.dala - INFO - Dala.dala_satu
308 2015-04-16 10:38:39,242 - jakservice.post_processing.dala - INFO - FASILITAS PEMERINTAHAN
309 2015-04-16 10:38:39,242 - jakservice.post_processing.dala - INFO - Dala.dala_satu
310 2015-04-16 10:38:39,288 - jakservice.post_processing.dala - INFO - RUMAH DINAS
311 2015-04-16 10:38:39,288 - jakservice.post_processing.dala - INFO - Dala.dala_satu
Ln:682 Col1 Sel0 58.4 KB ANSI LF INS Default Text
```

Figure 19. Log file

4 Ad Hoc DaLA

4.1 Description

Page to display the result of Adhoc DaLA calculation. Adhoc DaLA is a function to generate DaLA report of specific time period. This function can be accessed by registered user. The public user only can view the result of calculation.

The screenshot shows the JakSAFE Ad Hoc DaLA Report page. At the top, there is a navigation bar with icons for a flame, Automatic Report, Ad Hoc DaLA, Flood Reports, Information, and Login. Below the navigation bar, the title "JakSAFE Ad Hoc DaLA Report" is displayed. A table follows, listing three flood events with columns for #, Start Date (t0), End Date (t1), Estimated Damage, Estimated Loss, and Result. Each row contains a link to download the report, shapefile, calculation, and log files. At the bottom of the page, a copyright notice "JakSAFE © 2015" is visible.

#	Start Date (t0)	End Date (t1)	Estimated Damage	Estimated Loss	Result
1.	2015-02-03 01:00:00	2015-02-04 00:00:00	584,632,856,157.00	126,809,243,763.00	Report Shapefile Calculation Log
2.	2015-02-03 00:00:00	2015-02-04 00:00:00	584,632,856,157.00	126,809,243,763.00	Report Shapefile Calculation Log
3.	2015-02-03 00:00:00	2015-02-04 00:00:00	584,632,856,157.00	126,809,243,763.00	Report Shapefile Calculation Log

Figure 20. Adhoc DaLA public page

4.2 AdHoc DaLA table

A table to display the automatic report.

1. **#**, the record index.
2. **Start date (t0)**, start period of flood event.
3. **End date(t1)**, end period of flood event.
4. **Estimated Damage**, total estimated damage during the flood period. '*In Progress*' means that the calculation is not completed yet.
5. **Estimated Loss**, total estimated loss during the flood period. '*In Progress*' means that the calculation is not completed yet.
6. **Result**, several link to download the result of automatic calculation.
 - a. **Report**, link to download the pdf report.
 - b. **Shapefile**, link to download shapefile of hazard and impact analysis result.
 - c. **Calculation**, link to download the detail of DaLA calculation.
 - d. **Log**, link to download the log file of automatic calculation process.

4.3 View Adhoc result

1. Find the adhoc DaLA record.
2. Click **Report** to download the pdf report.
3. Click **Shapefile** to download the shapefile of hazard and impact analysis result.
4. Click **Calculation** to download the dateil calculation of each asset.
5. Click **Log** to download the log process file.
6. The contens of result files are similar to automaitic calcultaion result.

4.4 Generate DaLA report

1. Login to JakSAFE.
2. Click **Ad Hoc DaLA** menu.

Damage and Loss Assessment Software for Post Flood in Jakarta (JAKSAFE)

JakSAFE Ad Hoc DaLA Report

Select the date period to calculate DaLA

#	Start Date (t0)	End Date (t1)	Estimated Damage	Estimated Loss	Result
1.	2015-02-03 01:00:00	2015-02-04 00:00:00	584,632,856,157.00	126,809,243,763.00	Report Shapefile Calculation Log
2.	2015-02-03 00:00:00	2015-02-04 00:00:00	584,632,856,157.00	126,809,243,763.00	Report Shapefile Calculation Log
3.	2015-02-03 00:00:00	2015-02-04 00:00:00	584,632,856,157.00	126,809,243,763.00	Report Shapefile Calculation Log

JakSAFE © 2015

Figure 21. Adhoc DaLA page of registered user

- Enter **start datetime** and **end datetime**. Click calendar icon and set the date and time. Datetime format is YYYY-MM-DD HH:MM:SS.

JakSAFE Ad Hoc DaLA Report

Select the date period to calculate DaLA

2015-04-01 00:01:43

—
End Date

[Generate Report](#)

<
April 2015
>

Su	Mo	Tu	We	Th	Fr	Sa
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	1	2
3	4	5	6	7	8	9

00
:
01
:
43

found. Try again later.

JakSAFE © 2015

Figure 22. select start datetime

- Click **Generate Report**.

JakSAFE Ad Hoc DaLA Report

Adhoc calculation started for date period [2015-04-01 17:45:02 - 2015-04-04 17:45:04]. This may take a moment.

Select the date period to calculate DaLA

#	Start Date (t0)	End Date (t1)	Estimated Damage	Estimated Loss	Result
1.	2015-02-03 01:00:00	2015-02-04 00:00:00	584,632,856,157.00	126,809,243,763.00	Report Shapefile Calculation Log

Figure 23. Adhoc calculation is started

Damage and Loss Assessment Software for Post Flood in Jakarta (JAKSAFE)

5. Wait until the calculation is done. Refresh the page to check the progress.

JakSAFE Ad Hoc DaLA Report

Select the date period to calculate DaLA

#	Start Date (t0)	End Date (t1)	Estimated Damage	Estimated Loss	Result
1.	2015-04-01 17:45:02	2015-04-04 17:45:04	In Progress	In Progress	In Progress
2.	2015-02-03 01:00:00	2015-02-04 00:00:00	584,632,856,157.00	126,809,243,763.00	Report Shapefile Calculation Log

Figure 24. Ad hoc calculation in progress

JakSAFE Ad Hoc DaLA Report

Select the date period to calculate DaLA

#	Start Date (t0)	End Date (t1)	Estimated Damage	Estimated Loss	Result
1.	2015-04-01 17:45:02	2015-04-04 17:45:04	535,987,938,590.00	5,292,601,365,790.00	Report Shapefile Calculation Log
2.	2015-02-03 01:00:00	2015-02-04 00:00:00	584,632,856,157.00	126,809,243,763.00	Report Shapefile Calculation Log

Figure 25. Ad hoc calculation is finished

6. Download the result files to view the calculation result.

5 Flood Reports

5.1 Description

Page to view the historical flood reports in DKI Jakarta. The table is sorted by report date in descending order. Click **Next →** to show the older records.

The interface includes a navigation bar with icons for fire, Automatic Report, Ad Hoc DaLA, Flood Reports (highlighted), Information, and Login. Below the navigation is a section titled "JakSAFE Flood Reports". A "Select the date period to filter reports" section contains "Report Date Start" and "Report Date End" fields with calendar icons and a "Filter" button. A "Next →" button is located above the table. The main table has columns: #, Unit, Village, District, RT, RW, Depth, Report Time, and Request Time. The table lists 10 entries from April 24, 2015, to February 04, 2015.

#	Unit	Village	District	RT	RW	Depth	Report Time	Request Time
1.	3171100002001000	SETIA BUDI	KUNINGAN TIMUR	1	150		2015-04-24 22:06:03	2015-04-24 23:59:59
2.	3171070003001000	MAMPANG PRAPATAN	TEGAL PARANG	1	150		2015-04-24 22:04:01	2015-04-24 23:59:59
3.	3171070003002000	MAMPANG PRAPATAN	TEGAL PARANG	2	150		2015-04-24 22:01:59	2015-04-24 23:59:59
4.	3173030002006000	SENEN	PASEBAN	6	150		2015-04-24 21:59:57	2015-04-24 23:59:59
5.	3172100002008000	MATRAMAN	PAL MERIEM	8	150		2015-04-24 21:57:55	2015-04-24 23:59:59
6.	3175040005014000	KOJA	RAWABADAK UTARA	14	150		2015-04-24 21:55:53	2015-04-24 23:59:59
7.	3173020001002000	MENTENG	MENTENG	2	150		2015-04-24 21:53:51	2015-04-24 23:59:59
8.	3173020002005000	MENTENG	PEGANGSAAN	5	150		2015-04-24 21:51:49	2015-04-24 23:59:59
9.	3172100002001000	MATRAMAN	PAL MERIEM	1	150		2015-04-24 21:49:47	2015-04-24 23:59:59
10.	3171070004005000	MAMPANG PRAPATAN	MAMPANG PRAPATAN	5	150		2015-04-24 21:47:45	2015-04-24 23:59:59

Figure 26. Flood Reports

5.2 Flood Report Table

A table to display the historical flood report.

1. **#**, the record index.
2. **Unit**, identifier code of RW or RT.
3. **Village**, village name. The location of flood event.
4. **District**, district name. The location of flood event.
5. **RT**, RT number, The location of flood event.
6. **RW**, RW number. The location of flood event.
7. **Depth**, depth of flood.
8. **Report Time**, time when the event is reported to BPBD.
9. **Request Time**, time when the report is requested from DIMS.

5.3 Filtering Flood Record

1. Enter **start datetime** and **end datetime**. Click calendar icon, select the date and time.
Datetime format is YYYY-MM-DD HH:MM:SS.

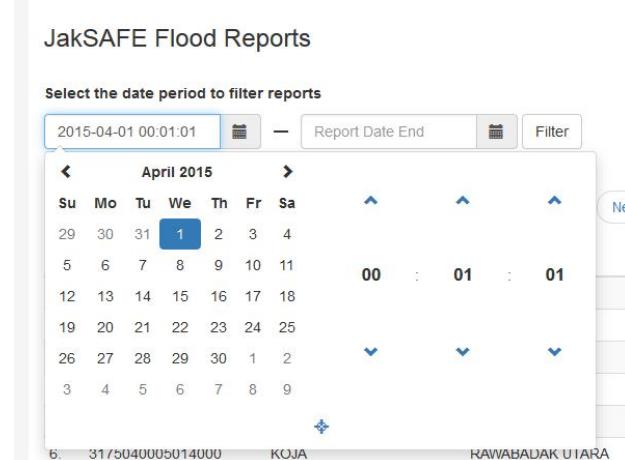


Figure 27. Select start datetime

2. Click **Filter**. The result will be shown at automatic report table.

The screenshot shows the 'JakSAFE Flood Reports' interface after filtering. At the top, there's a message: 'Showing reports for date period: 2015-04-09 14:10:06 - 2015-04-12 14:10:13'. Below is the 'JakSAFE Flood Reports' title and a date picker for filtering. The main area is a table with the following data:

#	Unit	Village	District	RT	RW	Depth	Report Time	Request Time
1.	3172100001003000	MATRAMAN	KEBON MANGGIS	3	100		2015-04-12 14:09:14	2015-04-12 17:59:59
2.	3172030003002000	CIPAYUNG	MUNJUL	2	100		2015-04-12 14:07:12	2015-04-12 17:59:59
3.	3172030001005000	CIPAYUNG	PONDOK RANGGON	5	100		2015-04-12 14:05:10	2015-04-12 17:59:59

Figure 28. Flood report filter result

6 Settings

6.1 Description

Page to view and update the configuration of JakSAFE service. This page can be accessed by registered user. This menu consists of 6 submenu that will be detailed in these following subsection.

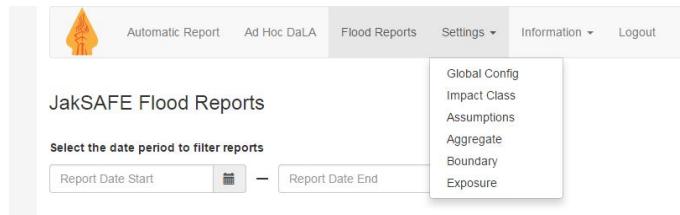


Figure 29. Settings menu

6.2 Global Config

6.2.1 Description

Global config is the global configuration of JakSAFE service. The content of global configuration is displayed at current global config textbox.

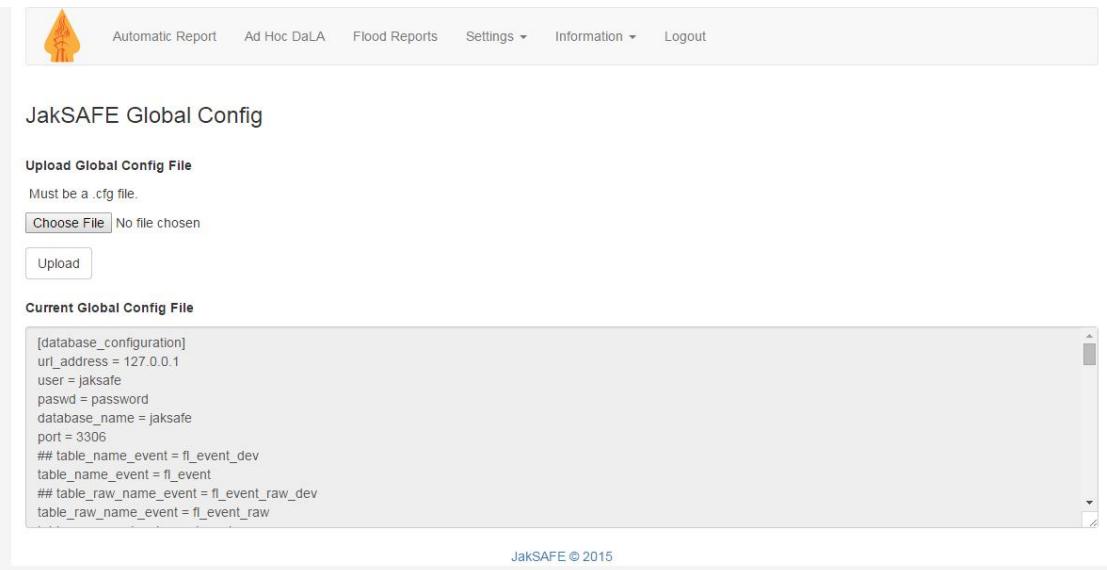


Figure 30. Global config page

6.2.2 Current Global Config

The contents of current global config are as follow:

- [database_configuration]**, the configuration of MySQL database connection.
url_address, url address of database host.
user, database username.
passwd, database password.
database_name, database name.
port, database port.

table_name_event, name of event table that store the clean flood report from DIMS.
table_raw_name_event, name of event raw table that store the raw report from DIMS.
table_name_autocalc, name of autocalc table that store the record of automatic calculation.
table_name_adhoc_calc, name of adhoc_calc table that store the record of adhoc calculation.

```
[database_configuration]
url_address = 127.0.0.1
user = jaksafe
passwd = password
database_name = jaksafe
port = 3306
table_name_event = fl_event
table_raw_name_event = fl_event_raw
table_name_autocalc = auto_calc
table_name_adhoc_calc = adhoc_calc
```

Figure 31. [database_configuration]

b. **[file_input]**, list of input filename.

Input_kelas, filename of impact classification file (.csv).

Input_boundary_layer, filename of boundary shapefile to generate hazard shapefile (.shp).

Input_building_exposure, filename of building shapefile(.shp).

Input_road_exposure, filename of road shapefile(.shp).

```
[file_input]
input_kelas = kelas_dampak.csv
input_boundary_layer = boundary.shp
input_building_exposure = building_exposure.shp
input_road_exposure = road_exposure.shp
```

Figure 32. [file_input]

c. **[file_output]**, list of output filename.

Output_rw_report, filename of flood report in RW level (.csv).

Output_rt_report, filename of flood report in RT level (.csv).

Output_hazard, filename of hazard shapefile (.shp).

Output_building_exposure, filename of building impact analysis result (.shp).

Output_road_exposure, filename of road impact analysis result (.shp).

```
[file_output]
output_rw_report = report_RW.csv
output_rt_report = report_RT.csv
output_hazard = hazard.shp
output_building_exposure = impact_building.shp
output_road_exposure = impact_roads.shp
```

Figure 33. [file_output]

d. **[qgis_conf]**, path to QGIS application.

Qgis_install_path, path to QGIS installation directory.

- e. **[dims_conf]**, the URL of DIMS service to request the flood report every 6 hours.
url_dims, URL to access DIMS services.
- f. **[folder_conf]**, path to project folder, automatic calculation folder, and adhoc calculation folder.
Project_folder, path to project folder.
Auto_folder, path to automatic calculation folder.
Adhoc_folder, path to adhoc calculation folder.

```

[qgis_conf]
qgis_install_path = /usr

[dims_conf]
url_dims = http://bpbd.jakarta.go.id/cgi-bin/flr

[folder_conf]
project_folder = /home/user/.virtualenvs/jaksafe/jaksafe/jakservice
auto_folder = ../uploaded/jakservice/auto
adhoc_folder = ../uploaded/jakservice/adhoc

```

Figure 34. [qgis_conf], [dims_conf], [folder_conf]

- g. **[directory]**, path to input and output file.
Resource, path to resource folder for auto and adhoc calculation.
Assumptions, path to assumption folder for auto and adhoc calculation .
Aggregate, path to aggregate file for auto and adhoc calculation.
Log, path to log folder auto calculation.
Impact, path to impact analysis result folder of auto calculation.
Report, path to report folder of auto calculation.
Hazard, path to hazard folder of auto calculation.
Log_adhoc, path to log folder adhoc calculation.
Impact_adhoc, path to impact analysis result folder of adhoc calculation.
Report_adhoc, path to report folder of adhoc calculation.
Hazard_adhoc, path to hazard folder of adhoc calculation.

```

[directory]
resource = /home/user/.virtualenvs/jaksafe/jaksafe/uploaded/jakservice/auto/resource/
assumption = /home/user/.virtualenvs/jaksafe/jaksafe/uploaded/jakservice/auto/input/assumptions/
aggregate = /home/user/.virtualenvs/jaksafe/jaksafe/uploaded/jakservice/auto/input/aggregate/
log = /home/user/.virtualenvs/jaksafe/jaksafe/uploaded/jakservice/auto/output/log/
impact = /home/user/.virtualenvs/jaksafe/jaksafe/uploaded/jakservice/auto/output/impact/
report = /home/user/.virtualenvs/jaksafe/jaksafe/uploaded/jakservice/auto/output/report/
hazard = /home/user/.virtualenvs/jaksafe/jaksafe/uploaded/jakservice/auto/output/hazard/
log_adhoc = /home/user/.virtualenvs/jaksafe/jaksafe/uploaded/jakservice/adhoc/output/log/
impact_adhoc = /home/user/.virtualenvs/jaksafe/jaksafe/uploaded/jakservice/adhoc/output/impact/
report_adhoc = /home/user/.virtualenvs/jaksafe/jaksafe/uploaded/jakservice/adhoc/output/report/
hazard_adhoc = /home/user/.virtualenvs/jaksafe/jaksafe/uploaded/jakservice/adhoc/output/hazard/

```

Figure 35. [directory]

- h. **[subsektor]**, list of subsector to be calculated.

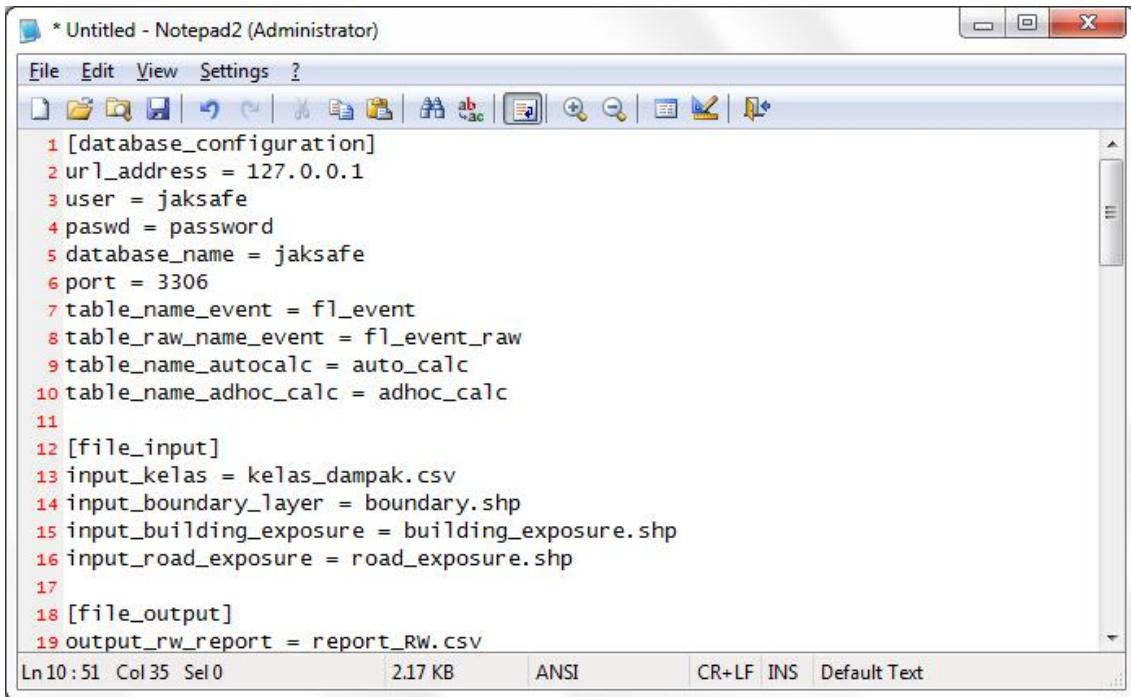
Subsektor, list of subsector to be included in DaLA calculation.

```
[subsektor]
subsektor =
PERTANIAN,PERDAGANGAN,INDUSTRI,PARIWISATA,PERUMAHAN,KESEHATAN,PENDIDIKAN,
TRANSPORTASI,TELEKOMUNIKASI,ENERGI,AIR BERSIH DAN
SANITASI,PEMERINTAHAN,FINANSIAL,AGAMA
```

Figure 36. [subsektor]

6.2.3 Uploading Global Config

1. Create .cfg file. The structure and variable name must be as same as the current global config file. You can copy the current global config file and paste into text editor, then update the variable value and save as .cfg file.



```
* Untitled - Notepad2 (Administrator)
File Edit View Settings ?
1 [database_configuration]
2 url_address = 127.0.0.1
3 user = jaksafe
4 paswd = password
5 database_name = jaksafe
6 port = 3306
7 table_name_event = f1_event
8 table_raw_name_event = f1_event_raw
9 table_name_autocalc = auto_calc
10 table_name_adhoc_calc = adhoc_calc
11
12 [file_input]
13 input_kelas = kelas_dampak.csv
14 input_boundary_layer = boundary.shp
15 input_building_exposure = building_exposure.shp
16 input_road_exposure = road_exposure.shp
17
18 [file_output]
19 output_rw_report = report_RW.csv

Ln 10 : 51 Col 35 Sel 0 2.17 KB ANSI CR+LF INS Default Text
```

Figure 37. Edit global config variable

2. Go to JakSAFE web application, select menu **Settings**, then **Global Config**.
3. Click **browse** or **choose file** to find the .cfg file that have been created.

JakSAFE Global Config

Upload Global Config File

Must be a .cfg file.

global_conf.cfg

Figure 38. Upload Global Config

- Click **upload** to upload the .cfg file.

The screenshot shows the JakSAFE Global Config upload interface. At the top, there is a navigation bar with icons for Automatic Report, Ad Hoc DaLA, Flood Reports, and Settings. Below the navigation bar, a green success message box displays the text "'Global Config' upload successful." The main area is titled "JakSAFE Global Config" and contains a "Upload Global Config File" form. The form includes a note that the file must be a .cfg file, a "Browse..." button with the placeholder "No file selected.", and an "Upload" button. Below the form, a "Current Global Config File" section displays the configuration code:

```
[database_configuration]
url_address = 127.0.0.1
user = jaksafe
password = password
database_name = jaksafe
port = 3306
table_name_event = fl_event
table_raw_name_event = fl_event_raw
table_name_autocalc = auto_calc
table_name_adhoc_calc = adhoc_calc
```

Figure 39. Success uploading global config

6.3 Impact Class

6.3.1 Description

Impact class is a settings page that shows the classification of flood event according to the height and the duration.

Damage and Loss Assessment Software for Post Flood in Jakarta (JAKSAFE)

The screenshot shows the JAKSAFE software interface with the following details:

- Header:** Automatic Report, Ad Hoc DaLA, Flood Reports, Settings ▾, Information ▾, Logout.
- Title:** JakSAFE Impact Class Config
- Section:** Upload Impact Class Config File
- Text:** Must be a .csv file.
- Input:** Choose File (No file chosen)
- Buttons:** Upload, Download This Config
- Table:** Impact Class Settings

#	Kelas	Tinggi Min	Tinggi Max	Durasi Min	Durasi Max
1.	A1	10	70	0	0.9
2.	A2	71	150	0	0.9
3.	A3	151	500	0	0.9
4.	A4	Terdampak	Terdampak	0	0.9
5.	B1	10	70	1	4
6.	B2	71	150	1	4

Figure 40. Impact Class Settings

6.3.2 Impact class table

A table to display the historical flood report.

- #, record index.
- Kelas**, impact class code.
- Tinggi min**, minimum height for the impact class (in centimeters).
- Tinggi max**, maximum height for the impact class (in centimeters).
- Durasi min**, minimum duration for the impact class (in days).
- Durasi max**, minimum duration for the impact class (in days).

How to read the table

The screenshot shows the JAKSAFE software interface with the following details:

- Header:** Automatic Report, Ad Hoc DaLA, Flood Reports, Settings ▾, Information ▾, Logout.
- Title:** JakSAFE Impact Class Config
- Section:** Upload Impact Class Config File
- Text:** Must be a .csv file.
- Input:** Choose File (No file chosen)
- Buttons:** Upload, Download This Config
- Table:** Impact class table

#	Kelas	Tinggi Min	Tinggi Max	Durasi Min	Durasi Max
1.	A1	10	70	0	0.9
2.	A2	71	150	0	0.9
3.	A3	151	500	0	0.9
4.	A4	Terdampak	Terdampak	0	0.9
5.	B1	10	70	1	4
6.	B2	71	150	1	4
7.	B3	151	500	1	4
8.	B4	Terdampak	Terdampak	1	4
9.	C1	10	70	4.1	8
10.	C2	71	150	4.1	8
11.	C3	151	500	4.1	8
12.	C4	Terdampak	Terdampak	4.1	8
13.	D1	10	70	8.1	30
14.	D2	71	150	8.1	30
15.	D3	151	500	8.1	30
16.	D4	Terdampak	Terdampak	8.1	30

Figure 41. Impact class table



1. A1 classify the impact caused by 10 to 70 cm flood height for less than 1 day.
2. B2 classify the impact caused by 71 to 150 cm flood height for 1 to 4 days.
3. C3 classify the impact caused by more than 150 cm flood height for 4 to 8 days.
4. D4 classify the area that not inundated but affected by the flood for more than 8 days.

6.3.3 Download Impact Class

1. Click **Download This Config**
2. Save the csv file
3. Open the file using spreadsheet application or text editor
4. The structure of *kelas_dampak.csv* are as follow:
 - a. **Kelas**(class), unique classification code for impact.
 - b. **Kedalaman_bawah**(minimum_depth), minimum depth value of impact class (in centimeters). For 'Terdampak' (Affected) classification, the value in csv file is 'NULL'.
 - c. **Kedalaman_atas**(maximum_depth), maximum depth value of impact class (in centimeters). For 'Terdampak' (Affected) classification, the value in csv file is 'NULL'.
 - d. **Durasi_bawah**(minimum_duration), minimum duration of impact class (in days).
 - e. **Durasi_atas**(maximum_duration), maximum duration of impact class (in days).

A	B	C	D	E
1 kelas				
2 A1	10	70	0	0.9
3 A2	71	150	0	0.9
4 A3	151	500	0	0.9
5 A4	NULL	NULL	0	0.9
6 B1	10	70	1	4
7 B2	71	150	1	4
8 B3	151	500	1	4
9 B4	NULL	NULL	1	4
10 C1	10	70	4.1	8
11 C2	71	150	4.1	8
12 C3	151	500	4.1	8
13 C4	NULL	NULL	4.1	8
14 D1	10	70	8.1	30
15 D2	71	150	8.1	30
16 D3	151	500	8.1	30
17 D4	NULL	NULL	8.1	30

Figure 42. Impact class file(*kelas_dampak.csv*)

6.3.4 Upload Impact Class

1. Create impact class file as describe in previous subsection, and save as .csv file.
2. Click **browse** or **choose file** to select the new impact class file.

JakSAFE Impact Class Config

Upload Impact Class Config File
Must be a .csv file.
 kelas_dampak (1).csv

Figure 43. Uploading impact class

- Click **upload** to upload the impact class file.

Automatic Report Ad Hoc DaLA Flood Reports Settings Information Logout
Upload successful.
JakSAFE Impact Class Config
Upload Impact Class Config File
Must be a .csv file.
 No file selected.

Figure 44. Success uploading impact class

6.4 Assumptions

6.4.1 Description

Settings page to upload new assumption file to be used in automatic and adhoc DaLA calculation. There are 5 assumption file to be provided for DaLA calculation:

- Assumption damage
- Assumption loss
- Assumption aggregate
- Assumption Insurance
- Assumption Insurance Penetration

The current assumption file can be viewed and downloaded at assumption settings page.

6.4.2 Assumption Damage

6.4.2.1 Description

Value of damage assumption per unit or per meter asset for each impact class. Assumption damage is stored as csv file.

Damage and Loss Assessment Software for Post Flood in Jakarta (JAKSAFE)

Automatic Report Ad Hoc DaLA Flood Reports Settings ▾ Information ▾ Logout

JakSAFE Assumptions Config

Upload 'Assumptions Damage' Config File
Must be a .csv file.
 No file chosen

#	Subsektor	Aset	A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4
1.	PERTANIAN	TAMBAK	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	
2.	PERDAGANGAN	PASAR TRADISIONAL	1200000000	2400000000	6000000000	0	1800000000	3600000000	9000000000	0	2040000000	4080000000	10220000000	0	2400000000	4800000000	12000000000	0
3.	PERDAGANGAN	MAL	1500000000	3000000000	7500000000	0	2250000000	4500000000	11250000000	0	2550000000	5100000000	12275000000	0	3000000000	6000000000	15000000000	0
4.	PERDAGANGAN	RESTORAN	10000000	2000000	5000000	0	15000000	3000000	7500000	0	17000000	34000000	85500000	0	20000000	40000000	10000000	0
5.	PERDAGANGAN	RUKO	1500000	3000000	7500000	0	2250000	4500000	11250000	0	2550000	5100000	122750000	0	3000000	6000000	15000000	0

Figure 45. Assumption Damage section

6.4.2.2 Download Assumption Damage

1. Click **Download This Config** at assumption damage section.
2. Save the csv file.

6.4.2.3 Assumption Damage file

The structure of assumption file is as follow:

- **Subsektor**: name of subsector.
- **Aset**: name of asset.
- **A1 – D4**: impact class, the content of each cells is the damage value per unit or per meter asset (in IDR).

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
1.	SUBSEKTOR	ASET	A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4	
2.	PERTANIAN	TAMBAK	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	
3.	PERDAGANGAN	PASAR TRADISIONAL	1200000000	2400000000	6000000000	0	1800000000	3600000000	9000000000	0	2040000000	4080000000	10220000000	0	2400000000	4800000000	12000000000	0	
4.	PERDAGANGAN	MAL	1500000000	3000000000	7500000000	0	2250000000	4500000000	11250000000	0	2550000000	5100000000	12275000000	0	3000000000	6000000000	15000000000	0	
5.	PERDAGANGAN	RESTORAN	10000000	2000000	5000000	0	15000000	3000000	7500000	0	17000000	34000000	85500000	0	20000000	40000000	10000000	0	
6.	PERDAGANGAN	RUKO	15000000	30000000	75000000	0	22500000	45000000	112500000	0	25500000	51000000	1227500000	0	30000000	60000000	1500000000	0	
7.	PERDAGANGAN	UKM + MIKRO	20000000	4000000	10000000	0	3000000	600000	1500000	0	34000000	68000000	17000000	0	4000000	8000000	20000000	0	
8.	INDUSTRI	FABRIK	1700000000	340000000	850000000	0	340000000	680000000	170000000	0	5100000000	10200000000	2550000000	0	6800000000	13600000000	34000000000	0	
9.	INDUSTRI	PERKANTORAN	2000000000	4000000000	1000000000	0	400000000	1200000000	3000000000	0	800000000	1600000000	4000000000	0	1200000000	2400000000	6000000000	0	
10.	INDUSTRI	FABRIK KECIL	70000000	14000000	35000000	0	14000000	28000000	70000000	0	21000000	42000000	105000000	0	28000000	56000000	140000000	0	
11.	INDUSTRI	USAHA MIKRO	30000000	6000000	15000000	0	6000000	12000000	30000000	0	9000000	18000000	45000000	0	12000000	24000000	60000000	0	
12.	PARIWISATA	HOTEL	306428572	306428572	306428572	306428572	306428572	306428572	306428572	306428572	306428572	306428572	306428572	306428572	306428572	306428572	306428572		
13.	PARIWISATA	OBJEK WISATA	1166666667	1166666667	1166666667	1166666667	1166666667	1166666667	1166666667	1166666667	1166666667	1166666667	1166666667	1166666667	1166666667	1166666667	1166666667	1166666667	
14.	PERUMAHAN	RUMAH TERUTAR	10000000	2000000	3000000	0	2000000	3000000	5000000	0	3000000	4000000	8000000	0	5000000	6000000	10000000	0	
15.	PERUMAHAN	RUMAH TIDAK TERUTAR	5000000	1500000	2500000	0	1000000	2500000	3500000	0	1500000	3000000	4500000	0	2500000	4000000	5500000	0	
16.	KESIHATAN	APOTEK	500000000	0	0	0	75000000	400000000	600000000	750000000	0	0	0	0	0	0	0	0	
17.	KESIHATAN	RUMAH SAKIT	0	0	0	1000000000	1500000000	1400000000	2000000000	0	400000000	800000000	1200000000	0	0	0	0	0	0
18.	KESIHATAN	PUSKESMAS	0	0	0	320000000	2000000000	2000000000	0	0	120000000	1200000000	1200000000	0	0	0	0	0	0
19.	PENDIDIKAN	SEKOLAH	64050000	87832000	158400000	0	10675000	144570000	264420000	0	17080000	284352000	423940000	0	21350000	292940000	528800000	0	
20.	PENDIDIKAN	UNIVERSITAS	28050000	30150000	60200000	0	46750000	50250000	105000000	0	74800000	80400000	168000000	0	93500000	102500000	201000000	0	
21.	PENDIDIKAN	FASILITAS OLAHRAGA	90000000	94500000	157500000	0	150000000	157500000	263500000	0	240000000	252000000	420000000	0	300000000	315000000	535000000	0	
22.	TRANSPORTASI	JALAN	2008197588	2008197588	2008197588	2008197588	2008197588	2008197588	2008197588	2008197588	2008197588	2008197588	2008197588	2008197588	2008197588	2008197588	2008197588		
23.	TRANSPORTASI	TERMINAL	500000000	500000000	500000000	500000000	500000000	500000000	500000000	500000000	500000000	500000000	500000000	500000000	500000000	500000000	500000000	500000000	
24.	TRANSPORTASI	KENDARAAN	16000000	16000000	16000000	16000000	16000000	16000000	16000000	16000000	16000000	16000000	16000000	16000000	16000000	16000000	16000000	16000000	
25.	TRANSPORTASI	KERETA API	3666666667	3666666667	3666666667	3666666667	3666666667	3666666667	3666666667	3666666667	3666666667	3666666667	3666666667	3666666667	3666666667	3666666667	3666666667	3666666667	
26.	TRANSPORTASI	BANDARA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27.	TELEKOMUNIKASI	BTS	5000000	5000000	5000000	5000000	2500000	2500000	2500000	2500000	4000000	4000000	4000000	4000000	4000000	7000000	7000000	7000000	
28.	ENERGI	SPBU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29.	ENERGI	GARDU PLN	4833333333	4833333333	4833333333	4833333333	4833333333	4833333333	4833333333	4833333333	4833333333	4833333333	4833333333	4833333333	4833333333	4833333333	4833333333	4833333333	
30.	AIR BERSIH DAN SANITAS INSTALASI PDAM	50000000	10000000	50000000	50000000	10000000	2000000	4000000	4000000	2000000	50000000	50000000	50000000	50000000	75000000	50000000	50000000	50000000	
31.	AIR BERSIH DAN SANITAS MCK	10000000	20000000	20000000	10000000	10000000	2000000	4000000	4000000	2000000	3000000	6000000	3000000	5000000	8000000	8000000	5000000	5000000	
32.	AIR BERSIH DAN SANITAS POMPA AIR	10000000	10000000	10000000	10000000	50000000	50000000	50000000	10000000	10000000	75000000	40000000	15000000	15000000	10000000	10000000	10000000	10000000	
33.	AIR BERSIH DAN SANITAS POMPA AIR	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	

Figure 46. Damage assumption file

6.4.2.4 Upload Assumption Damage

1. Create damage assumption file, and save as csv file.
2. Click **browse** or **choose file** button on Assumption damage section to select the new damage assumption file.

JakSAFE Assumptions Config

Upload 'Assumptions Damage' Config File

Must be a .csv file.

asumsi_kerusakan.csv

Figure 47. Upload Assumption Damage

- Click **Upload**.

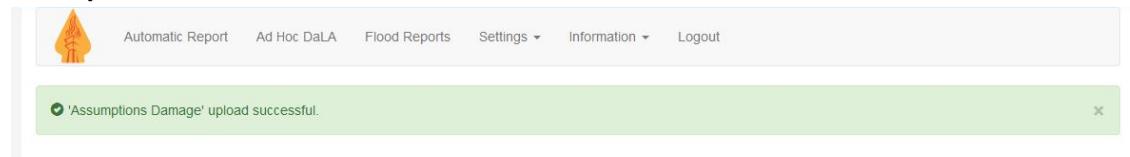


Figure 48. Success uploading assumption damage

6.4.3 Assumption Loss

6.4.3.1 Description

Value of loss assumption per unit or per meter asset for each impact class. Assumption loss is stored as csv file.

Upload 'Assumptions Loss' Config File
Must be a .csv file.
 No file chosen

#	Subsektor	Aset	A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4
1.	PERTANIAN	TAMBAK	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	
2.	PERDAGANGAN	PASAR TRADISIONAL	1760000000	1760000000	1760000000	1760000000	7040000000	7040000000	7040000000	7040000000	14080000000	14080000000	14080000000	14080000000	26400000000	26400000000	26400000000	
3.	PERDAGANGAN	MAL	2060000000	2060000000	2060000000	2060000000	2060000000	2060000000	8200000000	8200000000	16400000000	16400000000	16400000000	16400000000	30760000000	30760000000	30760000000	
4.	PERDAGANGAN	RESTORAN	1700000	1700000	1700000	1700000	6800000	6800000	6800000	6800000	13600000	13600000	13600000	13600000	25500000	25500000	25500000	
5.	PERDAGANGAN	RUKO	3300000	3300000	3300000	3300000	13200000	13200000	13200000	13200000	26400000	26400000	26400000	26400000	49500000	49500000	49500000	
6.	PERDAGANGAN	UKM + MIKRO	12000000	12000000	12000000	12000000	4800000	4800000	4800000	4800000	96000000	96000000	96000000	96000000	18000000	18000000	18000000	
7.	PERDAGANGAN	MINIMARKET	3300000	3300000	3300000	3300000	13200000	13200000	13200000	13200000	26400000	26400000	26400000	26400000	49500000	49500000	49500000	
8.	INDUSTRI	PABRIK	151000000	151000000	151000000	151000000	604000000	604000000	604000000	604000000	12080000000	12080000000	12080000000	12080000000	21140000000	21140000000	21140000000	
9.	INDUSTRI	PERKANTORAN	58000000	58000000	58000000	58000000	23200000	23200000	23200000	23200000	464000000	464000000	464000000	464000000	812000000	812000000	812000000	
10.	INDUSTRI	PABRIK KECIL	2100000	2100000	2100000	2100000	8400000	8400000	8400000	8400000	16800000	16800000	16800000	16800000	294000000	294000000	294000000	
11.	INDUSTRI	USAHA MIKRO	350000	350000	350000	350000	1400000	1400000	1400000	1400000	2800000	2800000	2800000	2800000	4900000	4900000	4900000	
12.	PARIWISATA	HOTEL	58058858	58058858	58058858	58058858	232235432	232235432	232235432	232235432	464470864	464470864	464470864	464470864	812824012	812824012	812824012	
13.	PARIWISATA	OBIEK WISATA	576101887	576101887	576101887	576101887	2304407548	2304407548	2304407548	2304407548	4608815096	4608815096	4608815096	4608815096	8065426418	8065426418	8065426418	

Figure 49. Assumption Loss Section

6.4.3.2 Download Assumption Loss

- Click **Download This Config** at assumption loss section.
- Save the csv file.

6.4.3.3 Assumption loss file

The structure of assumption file is as follow:

- Subsektor**: name of subsector.
- Aset**: name of asset.

- **A1 – D4** : impact class, the content of each cells is the loss value per unit or per meter asset (in IDR).

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
1	SUBSEKTOR	ASET	A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4	
2	PERTANIAN	TAMBAK	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	
3	PERDAGANGAN	PASAR TRADISIONAL	176000000	176000000	176000000	176000000	704000000	704000000	704000000	704000000	1.408E+10	1.408E+10	1.408E+10	1.408E+10	2.64E+10	2.64E+10	2.64E+10	2.64E+10	
4	PERDAGANGAN	MAL	2.05E+10	2.05E+10	2.05E+10	2.05E+10	8.2E+10	8.2E+10	8.2E+10	8.2E+10	1.64E+11	1.64E+11	1.64E+11	1.64E+11	3.075E+11	3.075E+11	3.075E+11	3.075E+11	
5	PERDAGANGAN	RESTORAN	17000000	17000000	17000000	17000000	68000000	68000000	68000000	68000000	13600000	13600000	13600000	13600000	25000000	25000000	25000000	25000000	
6	PERDAGANGAN	RUKO	33000000	33000000	33000000	33000000	132000000	132000000	132000000	132000000	26400000	26400000	26400000	26400000	49500000	49500000	49500000	49500000	
7	PERDAGANGAN	UKM + MIKRO	12000000	12000000	12000000	12000000	48000000	48000000	48000000	48000000	9600000	9600000	9600000	9600000	18000000	18000000	18000000	18000000	
8	INDUSTRI	PABRIK	151000000	151000000	151000000	151000000	604000000	604000000	604000000	604000000	1.208E+10	1.208E+10	1.208E+10	1.208E+10	2.114E+10	2.114E+10	2.114E+10	2.114E+10	
9	INDUSTRI	PERAKTORAN	58000000	58000000	58000000	58000000	232000000	232000000	232000000	232000000	454000000	454000000	454000000	454000000	812000000	812000000	812000000	812000000	
10	INDUSTRI	PABRIK KECIL	21000000	21000000	21000000	21000000	84000000	84000000	84000000	84000000	168000000	168000000	168000000	168000000	294000000	294000000	294000000	294000000	
11	INDUSTRI	USAHA MIKRO	9500000	3500000	3500000	3500000	14000000	14000000	14000000	14000000	28000000	28000000	28000000	28000000	49000000	49000000	49000000	49000000	
12	PARIWISATA	HOTEL & PUSAT KULINER	58638000	343583333	343583333	343583333	58058858	232215402	232215402	232215402	232215402	468815096	468815096	468815096	468815096	812324012	812324012	812324012	812324012
13	PARIWISATA	OBIEK WISATA	576101887	576101887	576101887	576101887	2304407548	2304407548	2304407548	2304407548	468815096	468815096	468815096	468815096	8065426418	8065426418	8065426418	8065426418	
14	PERUMAHAN	RUMAH TERATUR	500000	700000	1000000	0	1000000	1200000	1500000	1500000	2000000	2000000	2000000	2000000	3000000	3000000	3000000	3000000	
15	PERUMAHAN	RUMAH TIDAK TERATUR	100000	200000	250000	100000	200000	250000	300000	300000	350000	300000	500000	500000	250000	400000	500000	400000	
16	KESEHATAN	APOTEK	5000000	20000000	30000000	25000000	75000000	40000000	60000000	75000000	10000000	60000000	80000000	10000000	20000000	80000000	10000000	20000000	
17	KESEHATAN	RUMAH SAKIT	15000000	30000000	50000000	10000000	30000000	70000000	10000000	20000000	50000000	10000000	13000000	40000000	75000000	125000000	150000000	60000000	
18	KESEHATAN	PUSKESMAS	2000000	10000000	20000000	20000000	40000000	20000000	50000000	50000000	80000000	80000000	60000000	12000000	60000000	80000000	12000000	60000000	
19	PENDIDIKAN	SEKOLAH	2250000	8550000	10350000	270000	270000	10260000	12420000	3240000	3375000	12825000	15525000	4050000	3375000	12825000	15525000	4050000	
20	PENDIDIKAN	UNIVERSITAS	4500000	17100000	20700000	5400000	5400000	20520000	24840000	6480000	6750000	25650000	31050000	8100000	6750000	25650000	31050000	8100000	
21	PENDIDIKAN	FASILITASI OLAHARGA	4500000	17100000	20700000	5400000	5400000	20520000	24840000	6480000	6750000	25650000	31050000	8100000	6750000	25650000	31050000	8100000	
22	TRANSPORTASI	JALAN	401639518	401639518	401639518	401639518	401639518	401639518	401639518	401639518	401639518	401639518	401639518	401639518	401639518	401639518	401639518	401639518	
23	TRANSPORTASI	TERMINAL	25000000	25000000	25000000	25000000	25000000	25000000	25000000	25000000	25000000	25000000	25000000	25000000	25000000	25000000	25000000	25000000	
24	TRANSPORTASI	KENDARAAN	6330000	6330000	6330000	6330000	6330000	6330000	6330000	6330000	6330000	6330000	6330000	6330000	6330000	6330000	6330000	6330000	
25	TRANSPORTASI	KERETA API	3735833333	3735833333	3735833333	3735833333	3735833333	3735833333	3735833333	3735833333	3735833333	3735833333	3735833333	3735833333	3735833333	3735833333	3735833333	3735833333	
26	TRANSPORTASI	BANDARA	2500000	2500000	2500000	2500000	2500000	2500000	2500000	2500000	2500000	2500000	2500000	2500000	2500000	2500000	2500000	2500000	
27	TELEKOMUNIKASI	BTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28	ENERGI	SPBU	2000000	2000000	2000000	2000000	6000000	6000000	6000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	
29	BUKIT	GDGDU KLN	343750000	343750000	343750000	343750000	343750000	343750000	343750000	343750000	343750000	343750000	343750000	343750000	343750000	343750000	343750000	343750000	
30	AIR BERSIH DAN SANITAS INSTALASI PDAM	500000	2500000	5000000	1000000	5000000	1000000	1000000	2000000	2500000	1000000	5000000	5000000	5000000	25000000	5000000	2000000	10000000	
31	AIR BERSIH DAN SANITAS MCK	500000	2000000	5000000	1000000	4000000	7500000	2000000	1500000	6000000	1000000	5000000	5000000	2000000	8000000	1500000	7500000	10000000	
32	AIR PERPKH DAN SANITAS PAMPA AIR	1000000	5000000	1000000	5000000	1000000	5000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	

Figure 50. loss assumption file

6.4.3.4 Upload Assumption Loss

3. Create loss assumption file, and save as csv file.
4. Click **browse** or **choose file** button on Assumption loss section to select the new loss assumption file.

Upload 'Assumptions Loss' Config File

Must be a .csv file.

[Browse...](#) asumsi_kerugian.csv

[Upload](#)

[Download This Config](#)

Figure 51. Upload Assumption loss

5. Click **Upload**.



Figure 52. Success uploading assumption loss

6.4.4 Assumption Aggregate

6.4.4.1 Description

Value of total aggregate damage or loss of an asset in certain administrative area. This file is used to estimated the damage for asset which the amount can not be defined by impact analysis, such as loss of provider, banking and port loading.

Damage and Loss Assessment Software for Post Flood in Jakarta (JAKSAFE)

Upload 'Assumptions Aggregate' Config File
Must be a .csv file.

No file chosen

#	Provinsi	Kota	Kecamatan	Kelurahan	Subsektor	Aset	Kerusakan	Kerugian
1.	DKI JAKARTA	JAKARTA UTARA			PERDAGANGAN	BONGKAR MUAT PELABUHAN	0	18600000000
2.	DKI JAKARTA				TELEKOMUNIKASI	PROVIDER	0	1500000000
3.	DKI JAKARTA				FINANSIAL	PERBANKAN	0	2298891.178

Figure 53. Assumption Aggregate

6.4.4.2 Download Assumption Agggregate

1. Click **Download This Config** at assumption aggregate section.
2. Save the csv file.

6.4.4.3 Assumption aggregate file

The structure of assumption file is as follow:

- **Provinsi** (Province) : name of province, the highest region level of aggregate assumption.
- **Kota** (City) : name of city, the region level below the province.
- **Kecamatan** (District) : name of district, the region level below the city.
- **Kelurahan** (Village) : name of village, the lowest region level of aggregate assumption.
- **Subsektor** (Subsector) : name of subsector.
- **Aset** (Asset) : name of asset.
- **Kerusakan** (Damage) : Aggregate damage value of asset at the aggregate level (in IDR).
- **Kerugian** (Loss) : Aggregate loss value of asset at the aggregate level (in IDR).

	A	B	C	D	E	F	G	H
1	PROVINSI	KOTA	KECAMATAN	KELURAHAN	SUBSEKTOR	ASET	KERUSAKAN	KERUGIAN
2	DKI JAKARTA	JAKARTA UTARA			PERDAGANGAN	BONGKAR MUAT PELABUHAN	0	18600000000
3	DKI JAKARTA				TELEKOMUNIKASI	PROVIDER	0	1500000000
4	DKI JAKARTA				FINANSIAL	PERBANKAN	0	2298891.178
5								

Figure 54. assumption aggregate file

6.4.4.4 Upload Assumption Agggregate

1. Create aggregate assumption file, and save as csv file.
2. Click **browse** or **choose file** button on Assumption aggregate section to select the new aggregate assumption file.

Upload 'Assumptions Aggregate' Config File

Must be a .csv file.

No file selected.

Figure 55. Upload Assumption Aggregate

3. Click **Upload**.



Figure 56. Success upload assumption aggregate

6.4.5 Assumption Insurance

6.4.5.1 Description

The assumption of general accident insurance. This assumption consists of the number of population in DKI Jakarta, probability of accident during flood event, and the claim value for general accident.

Upload 'Assumptions Insurance' Config File		
Must be a .csv file.		
<input type="button" value="Choose File"/> No file chosen <input type="button" value="Upload"/> <input type="button" value="Download This Config"/>		
#	Asumsi Kerugian Asuransi	Nilai
1.	POPULASI DKI JAKARTA	100000000
2.	KEMUNGKINAN KECELAKAAN	0.001
3.	NILAI KLAIM ASURANSI GENERAL ACCIDENT	100000000

Figure 57. Assumption Insurance

6.4.5.2 Download Assumption Insurance

- Click **Download This Config** at assumption insurance section.
- Save the csv file.

6.4.5.3 Assumption aggregate file

The structure of assumption file is as follow:

- Asumsi Kerugian Asuransi** (Assumption of insurance loss), the assumption of general accident loss:
 - Populasi DKI Jakarta**, the number population in DKI Jakarta
 - Kemungkinan Kecelakaan**, the probability of accident during the flood event in DKI Jakarta
 - Nilai klaim asuransi general accident**, claim value of a general accident
- Nilai** (Value), the value of assumptions.

A	B
1 ASUMSI KERUGIAN ASURANSI	NILAI
2 POPULASI DKI JAKARTA	100000000
3 KEMUNGKINAN KECELAKAAN	0.001
4 NILAI KLAIM ASURANSI GENERAL ACCIDENT	100000000
5	

Figure 58. assumption insurance file

6.4.5.4 Upload Assumption Insurance

1. Create insurance assumption file, and save as csv file.
2. Click **browse** or **choose file** button on Assumption insurance section to select the new insurance assumption file.

Upload 'Assumptions Insurance' Config File

Must be a .csv file.

asumsi_asuransi.csv

Figure 59. Upload Assumption Insurance

3. Click **Upload**.

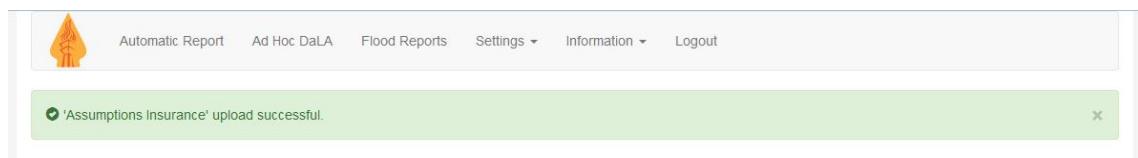


Figure 60. Uploading Assumption insurance

6.4.6 Assumption Insurance Penetration

6.4.6.1 Description

The assumption of the coefficient of insurance penetration in a region for each asset. This assumption is used to estimate the loss of insurance asset.

Upload 'Assumptions Insurance Penetration' Config File
Must be a .csv file.

No file chosen

#	Subsektor	Aset	Tipe Asuransi	Provinsi	Kota	Kecamatan	Kelurahan	Penetrasi Asuransi
1.	PERTANIAN	TAMBAK	PROPERTY	DKI JAKARTA				0.62
2.	PERDAGANGAN	PASAR TRADISIONAL	PROPERTY	DKI JAKARTA				0.64
3.	PERDAGANGAN	MAL	PROPERTY	DKI JAKARTA				0.9
4.	PERDAGANGAN	RESTORAN	PROPERTY	DKI JAKARTA				0.08
5.	PERDAGANGAN	RUKO	PROPERTY	DKI JAKARTA				0.11
6.	PERDAGANGAN	UKM + MIKRO	PROPERTY	DKI JAKARTA				0.63
7.	PERDAGANGAN	BONGKAR MUAT PELABUHAN	PROPERTY	DKI JAKARTA				0.88

Figure 61. Assumption Insurance Penetration

6.4.6.2 Download Assumption Insurance Penetration

1. Click **Download This Config** at assumption insurance penetration section.
2. Save the csv file.

6.4.6.3 Assumption Insurance Penetration file

The structure of assumption file is as follow:

- **Subsektor** (Subsector) : name of subsector.
- **Aset** (Asset) : name of asset.
- **Insurance Type** : type of insurance, property, engineering, motor, or general accident.
- **Provinsi** (Province) : name of province, the highest region level of insurance penetration.
- **Kota** (City) : name of city, the region level below the province.
- **Kecamatan** (District) : name of district, the region level below the city.
- **Kelurahan** (Village) : name of village, the lowest region level of insurance penetration.
- **Penetrasi Asuransi** (Insurance Penetration) : Aggregate damage value of asset at the aggregate level (in IDR).

	A	B	C	D	E	F	G	H
1	SUBSEKTOR	ASET	INSURANCE TYPE	PROVINSI	KOTA	KECAMATAN	KELURAHAN	PENETRASI ASURANSI
2	PERTANIAN	TAMBAK	PROPERTY	DKI JAKARTA				0.62
3	PERDAGANGAN	PASAR TRADISIONAL	PROPERTY	DKI JAKARTA				0.64
4	PERDAGANGAN	MAL	PROPERTY	DKI JAKARTA				0.9
5	PERDAGANGAN	RESTORAN	PROPERTY	DKI JAKARTA				0.08
6	PERDAGANGAN	RUKO	PROPERTY	DKI JAKARTA				0.11
7	PERDAGANGAN	UKM + MIKRO	PROPERTY	DKI JAKARTA				0.63
8	PERDAGANGAN	BONGKAR MUAT PELABUHAN	PROPERTY	DKI JAKARTA				0.88
9	INDUSTRI	PABRIK	ENGINEERING	DKI JAKARTA				0.64
10	INDUSTRI	PERKANTORAN	PROPERTY	DKI JAKARTA				0.09

Figure 62. assumption insurance penetration file

6.4.6.4 Upload Assumption Insurance Penetration

1. Create insurance penetration assumption file, and save as csv file.
2. Click **browse** or **choose file** button on Assumption insurance penetration section to select the new insurance penetration assumption file.

Upload 'Assumptions Insurance Penetration' Config File

Must be a .csv file.

asumsi_penetrasiasuransi.csv

Figure 63. Upload Assumption Aggregate

3. Click **Upload**.

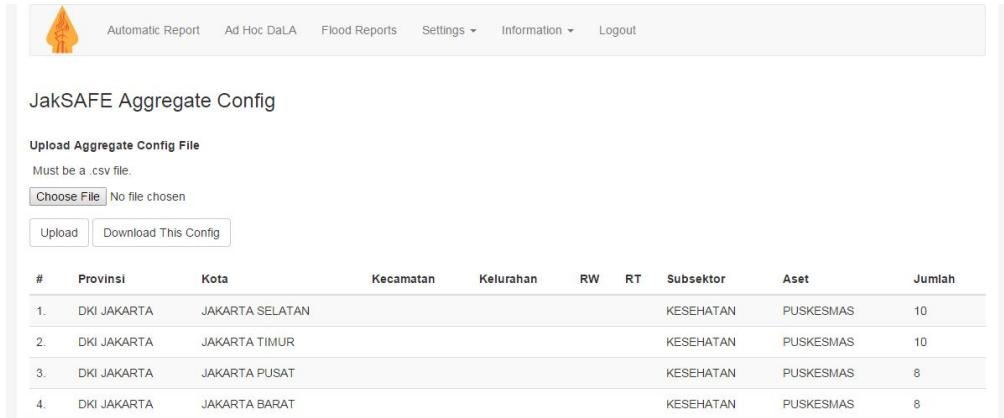


Figure 64. Success uploading assumption insurance penetration

6.5 Aggregate

6.5.1 Description

Total asset in a certain region. The region can be province, city, district, village, RW, or RT. This file is used to estimate the number of affected asset that can not be defined using shapefile analysis.



The screenshot shows the 'JakSAFE Aggregate Config' interface. At the top, there is a navigation bar with links: Automatic Report, Ad Hoc DaLA, Flood Reports, Settings, Information, and Logout. Below the navigation bar, the title 'JakSAFE Aggregate Config' is displayed. A section titled 'Upload Aggregate Config File' includes a note 'Must be a .csv file.' and a 'Choose File' button with the message 'No file chosen'. There are also 'Upload' and 'Download This Config' buttons. The main area contains a table with the following data:

#	Provinsi	Kota	Kecamatan	Kelurahan	RW	RT	Subsektor	Aset	Jumlah
1.	DKI JAKARTA	JAKARTA SELATAN					KESEHATAN	PUSKESMAS	10
2.	DKI JAKARTA	JAKARTA TIMUR					KESEHATAN	PUSKESMAS	10
3.	DKI JAKARTA	JAKARTA PUSAT					KESEHATAN	PUSKESMAS	8
4.	DKI JAKARTA	JAKARTA BARAT					KESEHATAN	PUSKESMAS	8

Figure 65. Aggregate Settings

6.5.2 Download Aggregate

1. Click **Download This Config** to download the current aggregate config.
2. Save the csv file.

6.5.3 Aggregate File

The structure of aggregate file are as follow:

- **Provinsi** (Province), name of province, the highest region level of asset aggregation.
- **Kota** (City), name of city, the region level below the province.
- **Kecamatan** (District), name of district, the region level below the city.
- **Kelurahan** (Village), name of village , the region level below the district.
- **RW**, RW number, the region level below village.
- **RT**, RT number, the lowest region level of asset aggregation.
- **Subsektor** (Subsector), name of subsector.
- **Aset** (Asset), name of asset.
- **Jumlah** (Total), total asset in the specific region.
- **Koefisien** (Coefficient), coefficient value of the asset.
- **Deskripsi** (Description),description of asset.

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A	B	C	D	E	F	G	H	I	J	K
PROVINSI	KOTA	KECAMATAN	KELURAHAN	RW	RT	SUBSEKTOR	ASET	JUMLAH	KOEFISIEN	DESKRIPSI
1	DKI JAKARTA	JAKARTA SELATAN		KESEHATAN	PUSKESMAS		10	1	PUSKESMAS KECAMATAN	
2	DKI JAKARTA	JAKARTA SELATAN		KESEHATAN	PUSKESMAS		10	1	PUSKESMAS KECAMATAN	
3	DKI JAKARTA	JAKARTA TIMUR		KESEHATAN	PUSKESMAS		8	1	PUSKESMAS KECAMATAN	
4	DKI JAKARTA	JAKARTA PUSAT		KESEHATAN	PUSKESMAS		8	1	PUSKESMAS KECAMATAN	
5	DKI JAKARTA	JAKARTA BARAT		KESEHATAN	PUSKESMAS		6	1	PUSKESMAS KECAMATAN	
6	DKI JAKARTA	JAKARTA UTARA		KESEHATAN	PUSKESMAS		69	0.8	PUSKESMAS KELURAHAN	
7	DKI JAKARTA	JAKARTA SELATAN		KESEHATAN	PUSKESMAS		78	0.8	PUSKESMAS KELURAHAN	
8	DKI JAKARTA	JAKARTA TIMUR		KESEHATAN	PUSKESMAS		35	0.8	PUSKESMAS KELURAHAN	
9	DKI JAKARTA	JAKARTA PUSAT		KESEHATAN	PUSKESMAS		67	0.8	PUSKESMAS KELURAHAN	
10	DKI JAKARTA	JAKARTA BARAT		KESEHATAN	PUSKESMAS		43	0.8	PUSKESMAS KELURAHAN	
11	DKI JAKARTA	JAKARTA UTARA		KESEHATAN	RUMAH SAKIT		15	1.5	RUMAH SAKIT UMUM	
12	DKI JAKARTA	JAKARTA PUSAT		KESEHATAN	RUMAH SAKIT		15	1	RUMAH SAKIT KHUSUS	
13	DKI JAKARTA	JAKARTA PUSAT		KESEHATAN	RUMAH SAKIT		14	1.5	RUMAH SAKIT UMUM	
14	DKI JAKARTA	JAKARTA UTARA		KESEHATAN	RUMAH SAKIT		6	1	RUMAH SAKIT KHUSUS	
15	DKI JAKARTA	JAKARTA UTARA		KESEHATAN	RUMAH SAKIT		12	1.5	RUMAH SAKIT UMUM	
16	DKI JAKARTA	JAKARTA BARAT		KESEHATAN	RUMAH SAKIT		10	1	RUMAH SAKIT KHUSUS	
17	DKI JAKARTA	JAKARTA BARAT		KESEHATAN	RUMAH SAKIT		23	1.5	RUMAH SAKIT UMUM	
18	DKI JAKARTA	JAKARTA SELATAN		KESEHATAN	RUMAH SAKIT		19	1	RUMAH SAKIT KHUSUS	
19	DKI JAKARTA	JAKARTA SELATAN		KESEHATAN	RUMAH SAKIT		22	1.5	RUMAH SAKIT UMUM	
20	DKI JAKARTA	JAKARTA TIMUR		KESEHATAN	RUMAH SAKIT		16	1	RUMAH SAKIT KHUSUS	
21	DKI JAKARTA	JAKARTA TIMUR		PERUMAHAN	RUMAH TERUTER		5996	1	PERUM 2002-2012	
22	DKI JAKARTA			FINANSIAL	ATM		3023	1	ATM, ATM/ADM, ATM/ADM SYARIAH	
23	DKI JAKARTA	JAKARTA BARAT		FINANSIAL	ATM		3967	1	ATM, ATM/ADM, ATM/ADM SYARIAH	
24	DKI JAKARTA	JAKARTA PUSAT		FINANSIAL	ATM		4519	1	ATM, ATM/ADM, ATM/ADM SYARIAH	
25	DKI JAKARTA	JAKARTA SELATAN								

Figure 66. The structure of aggregate file

6.5.4 Upload Aggregate

1. Create aggregate file, save as .csv file.
2. Select aggregate file to be uploaded.

JakSAFE Aggregate Config

Upload Aggregate Config File

Must be a .csv file.

aggregate.csv

Figure 67. Uploading aggregate exposure

3. Click **upload** to upload the csv file.

⚠
Automatic Report Ad Hoc DaLA Flood Reports Settings ▾ Information ▾ Logout

✔ Upload successful.

JakSAFE Aggregate Config

Upload Aggregate Config File

Must be a .csv file.

No file selected.

Figure 68. Success uploading aggregate config

6.6 Boundary

6.6.1 Description

Page to configure the boundary shapefile that used to generate hazard shapefile. The current boundary shapefile is the RTRW boundary. Shapefile consists of 5 files :

1. SHP
2. SHX
3. DBF
4. PRJ
5. QPJ

When creating a shapefile, these 5 files will be automatically generated.

The screenshot shows the 'JakSAFE Boundary Config' page. At the top, there is a navigation bar with links for 'Automatic Report', 'Ad Hoc DaLA', 'Flood Reports', 'Settings', 'Information', and 'Logout'. Below the navigation bar, the title 'JakSAFE Boundary Config' is displayed. The main content area contains five separate upload forms, each with a 'Choose File' button and a 'No file chosen' message:

- Upload Boundary SHP File**: Must be a .shp file. Choose File: No file chosen.
- Upload Boundary SHX File**: Must be a .shx file. Choose File: No file chosen.
- Upload Boundary DBF File**: Must be a .dbf file. Choose File: No file chosen.
- Upload Boundary PRJ File**: Must be a .prj file. Choose File: No file chosen.
- Upload Boundary QPJ File**: Must be a .qpj file. Choose File: No file chosen.

At the bottom right of the form area, there is a 'Upload All' button. Below the form area, the copyright notice 'JakSAFE © 2015' is visible.

Figure 69. Boundary Settings

6.6.2 Download Boundary

1. Click **Download File** at each shapefile form.
2. Save those downloaded file in one directory.
3. Open using QGIS or other GIS application to view the shapefile.

6.6.3 Upload Boundary

1. Create new boundary shapefile
2. Click **Browse** or **Choose file** on each given form, to select the appropriate file.

JakSAFE Boundary Config

Upload Boundary SHP File [Download File](#)

Must be a .shp file
 boundary.shp

Upload Boundary SHX File [Download File](#)

Must be a .shx file
 boundary.shx

Upload Boundary DBF File [Download File](#)

Must be a .dbf file
 boundary.dbf

Upload Boundary PRJ File [Download File](#)

Must be a .prj file
 boundary.prj

Upload Boundary QPJ File [Download File](#)

Must be a .qpj file
 boundary.qpj

[Upload All](#)

Figure 70. Upload Boundary

3. Make sure that all shapefile component has been selected.
4. Click **Upload All** to upload new boundary shapefile.

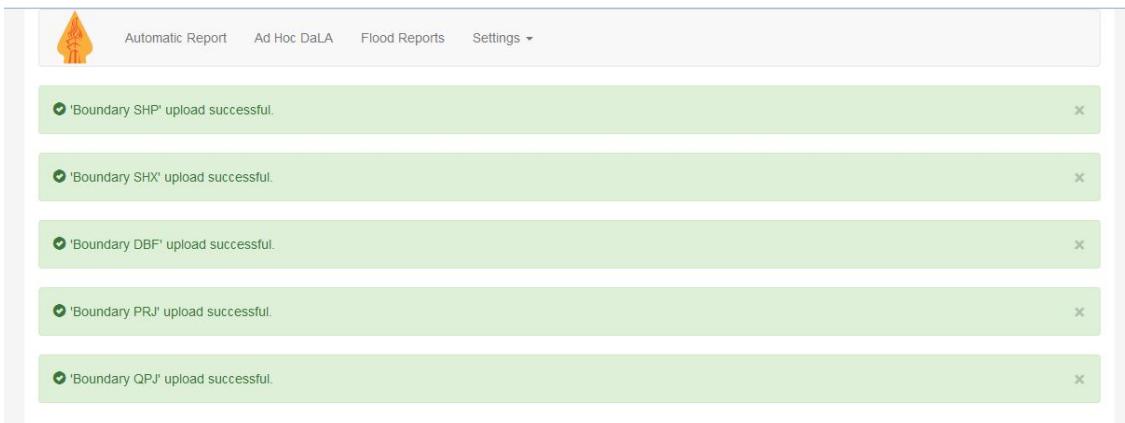


Figure 71 Success uploading boundary

6.7 Exposure

6.7.1 Description

Page to configure the building shapefile and road shapefile that will be used in DaLA calculation. As same as the boundary shapefile, building shapefile and road shapefile also consists of five files :

1. SHP
2. SHX
3. DBF
4. PRJ
5. QPJ

The screenshot shows the 'JakSAFE Exposure Config' interface. It features two columns of five input fields each, corresponding to the five files mentioned in the description. Each field includes a 'Choose File' button and a 'Download File' link.

Building Exposure	Road Exposure
Upload Building Exposure SHP File	Upload Road Exposure SHP File
Must be a .shp file	Must be a .shp file
<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Choose File"/> No file chosen
Upload Building Exposure SHX File	Upload Road Exposure SHX File
Must be a .shx file	Must be a .shx file
<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Choose File"/> No file chosen
Upload Building Exposure DBF File	Upload Road Exposure DBF File
Must be a .dbf file	Must be a .dbf file
<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Choose File"/> No file chosen
Upload Building Exposure PRJ File	Upload Road Exposure PRJ File
Must be a .prj file	Must be a .prj file
<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Choose File"/> No file chosen
Upload Building Exposure QPJ File	Upload Road Exposure QPJ File
Must be a .qpj file	Must be a .qpj file
<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Choose File"/> No file chosen

At the bottom of each column is a large 'Upload All' button.

Figure 72. Exposure Settings

6.7.2 Download building exposure

1. Click **Download File** at each shapefile form of building exposure.
2. Save those downloaded file in one directory.
3. Open using QGIS or other GIS application to view the shapefile.

6.7.3 Building exposure File

Building exposure shapefile that used in JakSAFE is based on OSM building shapefile. The OSM building shapefile is modified by adding some attributes, that is JS_SECTOR, JS_ASSET, and JS_COEFF. Here is the building exposure attribute.

Attribute	Description
BUILDING	OSM default attribute
STRUCTURE	OSM default attribute

WALL_TYPE	OSM default attribute
ROOF_TYPE	OSM default attribute
LEVELS	OSM default attribute
ADMIN	OSM default attribute
ROOF_ACCES	OSM default attribute
CAPACITY	OSM default attribute
RELIGION	OSM default attribute
OSM_TYPE	OSM default attribute
FULL_ADDRE	OSM default attribute
NAME	OSM default attribute
AMENITY	OSM default attribute
LEISURE	OSM default attribute
USE	OSM default attribute
OFFICE	OSM default attribute
TYPE	OSM default attribute
JS_SECTOR	JakSAFE additional attribute to define the building subsector.
JS_ASSET	JakSAFE additional attribute to define the asset type of the building.
JS_COEF	JakSAFE addditional attrbute to define the asset coefficient value that will be used when estimated the damage and loss. The deafult value is 1.

The last three attribute must be provided in the building exposure shapefile.

6.7.4 Upload building exposure

1. Create new building exposure shapefile or modified the existing building exposure shapefile.
2. Click **Browse** or **Choose file** on each given form of bulding exposure, and select the appropriate file.

Upload Building Exposure SHP File [Download File](#)

Must be a .shp file
[Browse...](#) building_exposure.shp

Upload Building Exposure SHX File [Download File](#)

Must be a .shx file
[Browse...](#) building_exposure.shx

Upload Building Exposure DBF File [Download File](#)

Must be a .dbf file
[Browse...](#) building_exposure.dbf

Upload Building Exposure PRJ File [Download File](#)

Must be a .prj file
[Browse...](#) building_exposure.prj

Upload Building Exposure QPJ File [Download File](#)

Must be a .qpj file
[Browse...](#) building_exposure.qpj

[Upload All](#)

Figure 73. Uploading building exposure

3. Make sure that all shapefile component has been selected.
4. Click **Upload All** to upload new exposure building shapefile.

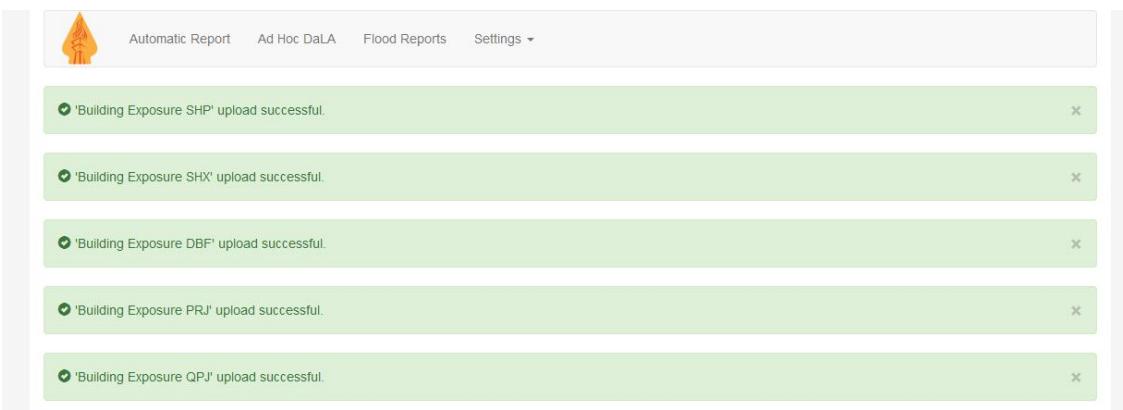


Figure 74. Success uploading building exposure

6.7.5 Download Road Exposure

1. Click **Download File** at each shapefile form of road exposure.
2. Save those downloaded file in one directory.
3. Open using QGIS or other GIS application to view the shapefile.

6.7.6 Road Exposure File

Road exposure shapefile that used in JakSAFE is based on OSM road shapefile. The OSM road shapefile is modified by adding some attributes to define the number of vehicle that pass through the road segment and the coefficient of each vehicle type. Here is the building exposure attribute.

Attribute	Description
NAME	Default OSM attribute
OSM_TYPE	Default OSM attribute
TYPE	Default OSM attribute
BUS_BESAR	JakSAFE attribute to define the number of big buses (<i>bus besar</i>) that pass through the road everyday
BUS_SEDANG	JakSAFE attribute to define the number of mini buses (<i>bus sedang</i>) that pass through the road everyday
ANGKOT	JakSAFE attribute to define the number of <i>angkot</i> that pass through the road everyday
MOBIL	JakSAFE attribute to define the number of private car that pass through the road everyday
MOTOR	JakSAFE attribute to define the number of motorcycle that pass through the road everyday
TRUCK	JakSAFE attribute to define the number of truck that pass through the road everyday
LAINNYA	JakSAFE attribute to define the number of other vehicles that pass through the road everyday
K_BUSBESAR	JakSAFE attribute to define the coefficient of big bus (<i>bus besar</i>) to the default vehicle damage and loss unit
K_BSEDANG	JakSAFE attribute to define the coefficient of mini bus (<i>bus sedang</i>) to the default vehicle damage and loss unit
K_ANGKOT	JakSAFE attribute to define the coefficient of <i>angkot</i> to the default vehicle damage and loss unit
K_MOBIL	JakSAFE attribute to define the coefficient of private car to the default vehicle damage and loss unit
K_MOTOR	JakSAFE attribute to define the coefficient of motorcycle to the default vehicle damage and loss unit
K_TRUCK	JakSAFE attribute to define the coefficient of truck to the default vehicle damage and loss unit
K_LAINNYA	JakSAFE attribute to define the coefficient of other vehicle to the default vehicle damage and loss unit

6.7.7 Upload Road Exposure

1. Create new road exposure shapefile or modified the existing road exposure shapefile.
2. Click **Browse** or **Choose file** on each given form of road exposure, and select the appropriate file.

<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> Upload Road Exposure SHP File Download File Must be a .shp file <input type="button" value="Browse..."/> road_exposure.shp </div>	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> Upload Road Exposure SHX File Download File Must be a .shx file <input type="button" value="Browse..."/> road_exposure.shx </div>
<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> Upload Road Exposure DBF File Download File Must be a .dbf file <input type="button" value="Browse..."/> road_exposure.dbf </div>	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> Upload Road Exposure PRJ File Download File Must be a .prj file <input type="button" value="Browse..."/> road_exposure.prj </div>
<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> Upload Road Exposure QPJ File Download File Must be a .qpj file <input type="button" value="Browse..."/> road_exposure.qpj </div>	
<input type="button" value="Upload All"/>	

Figure 75. Uploading road exposure

3. Make sure that all shapefile component has been selected.
4. Click **Upload All** to upload new exposure building shapefile.

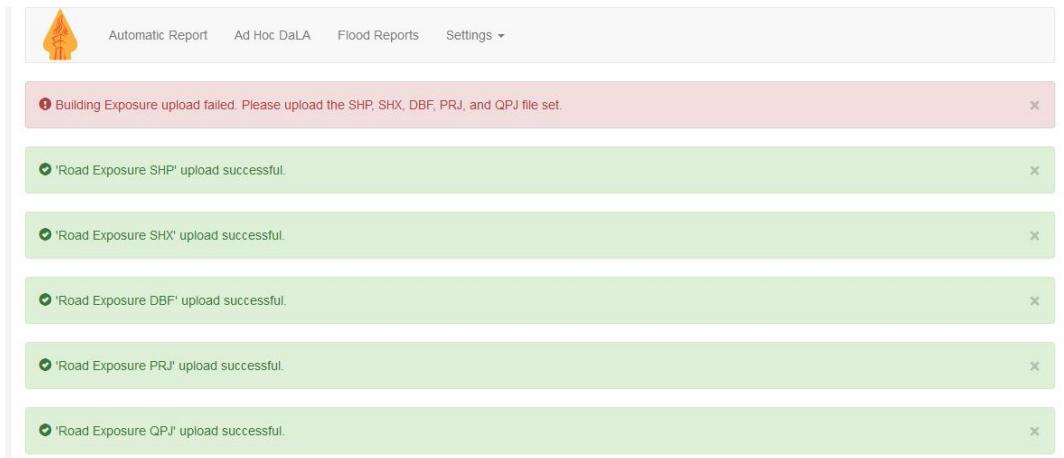


Figure 76. success message for uploading road exposure

7 Information

7.1 Description

Static page to show the information about JakSAFE, such as disclaimer, data source, instruction, etc.

7.2 Access Information Page

1. Select **Information** Menu.
2. Select the information page.



Figure 77. Information page sample

7.3 Add Information Page

1. Login to jakservice as administrator
2. Open Django admin page (<http://192.168.1.209:8000/admin>) (change into real url)

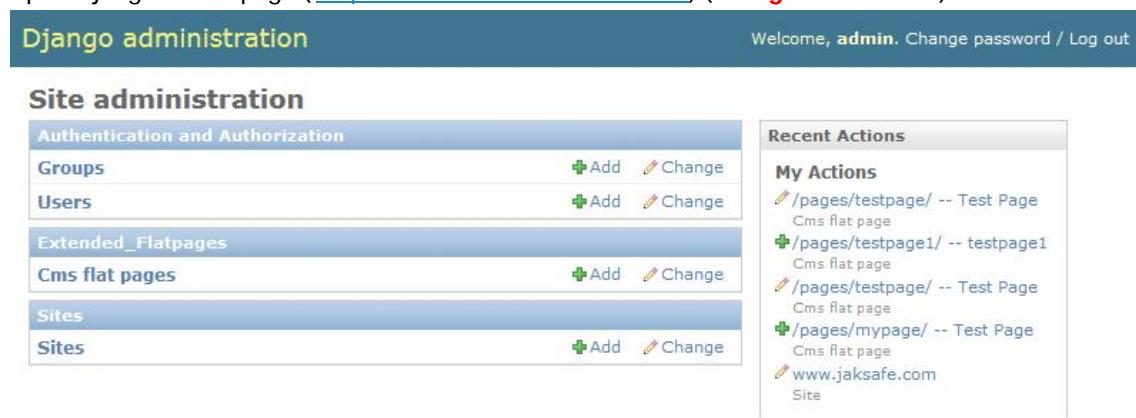


Figure 78. Django Admin Page

3. Click **+Add** Cms flat page at Extended_Flatpages panel

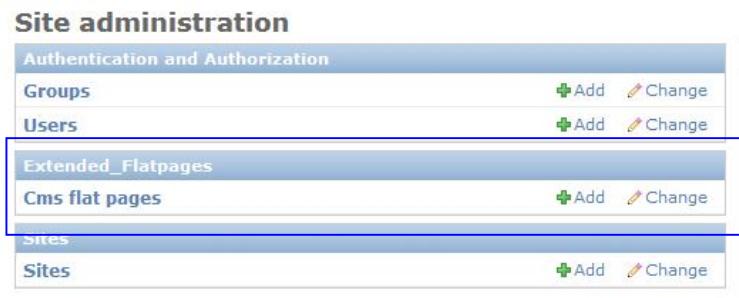


Figure 79. Extended_flatpages panel

4. Fill the cms flat page form which consists of :
 - a. **URL** : url of information page,
 - b. **Title** : title of information page,
 - c. **Content** : content of information page,
 - d. **Sites** : jaksafe site
5. Click **Save**.

Django administration

Welcome, admin. Change password / Log out

Home > Extended_Flatpages > Cms flat pages > Add cms flat page

Add cms flat page

URL:

Example: '/about/contact/'. Make sure to have leading and trailing slashes.

Title:

Content:

Sites:

Hold down "Control", or "Command" on a Mac, to select more than one.

Keywords:

Description:

[Advanced options \(Show\)](#)

[Save and add another](#) [Save and continue editing](#) **Save**

Figure 80. Add Information form

7.4 Upadate Information Page

1. Login to jakservice as administrator
2. Open Django admin page (<http://192.168.1.209:8000/admin>) (change into real url)
3. Click **Change** Cms flat page at Extended_Flatpages panel
4. Update the page
5. Click **save**

Damage and Loss Assessment Software for Post Flood in Jakarta (JAKSAFE)

Django administration

Welcome, admin. Change password / Log out

Home > Extended_Flatpages > Cms flat pages > /pages/testpage/ -- Test Page

Change cms flat page

URL: /pages/testpage/

Example: '/about/contact/'. Make sure to have leading and trailing slashes.

Title: Test Page

Content:

Sites: www.jaksafe.com

Keywords:

Description:

Advanced options (Show)

Action:

Figure 81. Update Information form

8 Login

Login form. Login to JakSAFE to change the settings and run adhoc DaLA.

1. Click Menu **Login**
2. Input **Username** and **password**
3. Click **Login**

Automatic Report Ad Hoc DaLA Flood Reports Information Login

JakSAFE Login

Username

Password

Login

JakSAFE © 2015

Figure 82. Login Form