

# PandaGUI First Milestone Release Notes

## Panda App Version 1.0.46

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### **UI Functionality**

- Webapp screens
  - Live statue + Map (generic, no information in this BLMS stage)
  - Historical Events log
  - Analysis tab - manual analysis + Alerts to analysis flow
  - Admin screen - configure UI
- Administrative features
  - Geofencing
  - BIT high level status
  - Web login with single user, single session at a time.
    - Roles
      - Super Admin - unique password Admin account for Prisma tech (same permissions as admin)
      - Admin - manage users and geofencing
      - Viewer - view and research

### **System Functionality**

- Interrogator, analyzer orchestrated by supervisor.
- Storage server for “shorter term”/“backup” recording
- Record in SEGY.
- Dove algo alerts.
- Data Input: Fort P14 (Culver) , U11 (Nest) U14 (Feather).

- Change on system setup only (no change supported after deployment at this time).

## Research Functionality

- Research form
  - Research visualization type Multi-channel, Single channel.
  - Base analysis parameters form:
    - Analysis mode - live or historic
      - Time and location/sensor/pixel range in historic
      - Location/sensor/pixel range on live
    - Window size
      - Cache Live and history up to 30 screens defined by the research form parameters.
    - Sensor range
      - 1000 for single window
      - 750 for multiple windows
    - nfft - 256, 512, 1024, 2048
    - Frequency range 0-1000 hz
    - Initial values for DSP related topics
      - Normalization
      - Color mapping
      - Zoom math
    - Panel name
- Two research modes: Live fiber and history (time and location).
  - Auto-scrolling in live (stop on manual scroll, button or scroll up to reactivate)
  - Stable on Live for 24 hours. No Errors in logs.
- 4 Displays in the same TAB.
  - Create from form
  - Close window (important for resource cleanup)
  - Duplicate research window
  - Live and history able to run simultaneously.
  - support 4 predefined static configurations - 1 , 2H, 2V, 4
- Data research features:
  - Zoom in X Axis, from all channels in screen to single channel in the screen.

- Adaptable axis values with accordance to zoom level
  - Show / hide frequencies
  - Tick resolution
- Marker on cursor + data panel (instead of hover above mouse)
- Color maps
  - Control by 2 nobs for min/max
  - Colormap type - same as in seis-analyzer
- Normalization - 2 layers frequency and spatial, including DPMW, Median, etc. per client characterization.
- Runtime frequency filter - subset of freq's under the base frequencies.
- Performance:

זמן עד לEndInit הצגת דאטא (דקוטר)	גודל חלון (שניות)	גודל חלון (שעות)
0.0034	5	0.0014
0.0160	30	0.0083
0.0321	60	0.0167
0.1433	300	0.0833
1.9923	3600	1
9.7691	21600	6
19.5381	43200	12
39.0763	86400	24

תוצאות יחס זמן (אמת)	תוצאות טעינה (בדיקות)	תוצאות זמן טעינה (בשניות)	אורן הנתונים (שניות)	תדרים ערוצים	מספר חלון (שניות)	גודל חלון (שניות)	nFFT
18	0.29	3	60	300	500	30	256

32	0.54	4	120	300	500	60	256
95	1.58	6	600	300	500	300	256
14	0.23	4	60	300	500	30	512
26	0.43	5	120	300	500	60	512
88	1.47	7	600	300	500	300	512
13	0.22	5	60	300	500	30	1024
31	0.52	4	120	300	500	60	1024
86	1.43	7	600	300	500	300	1024
13	0.21	5	60	300	500	30	2048
28	0.46	4	120	300	500	60	2048
100	1.67	6	600	300	500	300	2048
6	0.10	10	60	1000	2000	30	1024
11	0.19	11	120	1000	2000	60	1024
55	0.91	11	600	1000	2000	300	1024
4	0.06	17	60	1000	2000	30	2048
4	0.06	33	120	1000	2000	60	2048
16	0.27	37	600	300	500	3600	2048
20	0.33	1080	21600	1000	1000	86400	2048
21	0.35	1029	21600	300	500	86400	2048

## Health Monitoring

- Logs management system
  - Elastic, Logstash, Kibana
- Metrics management system - panda logical components and systems BIT control center.
  - Telegraf
  - Prometheus
  - Grafana

- K8S based recovery on error.

## Main Functionalities NOT in this version

- Research windows: Waterfall, SSG.
- Map with GPS locations and “Kav-Divuh” logic.
- Auto start after power cycle (supported in August but not tested, full robustness in November).
- Synchronization between research windows.
- Modular research window (size and “dock-ability”).
- 5+ research windows.
- synchronized user management between Health monitoring and the application.

## Open Bugs - Known Issues

Type	Key	Summary	Assignee
🐞	PZ-7878	Display buffer for partial time duration in time window displays non existing data l...	OA Ofer Avital
🐞	PZ-7862	duplicate of live - shows artifacts	OA Ofer Avital
🐞	PZ-7853	live view - source stops after scrolling in duplicated panel	OA Ofer Avital
🐞	PZ-7675	Curser is laggy , especially in live view	OA Ofer Avital
🐞	PZ-7889	Normalization - LOG math transfer from BE to APP , missed implementation	OA Ofer Avital
🐞	PZ-7887	duplicate window is hidden when in 2 screen horizontal	OA Ofer Avital
🐞	PZ-7875	When historically researching a smaller time duration than the desired window, th...	GZ Guy Zaichik
🐞	PZ-7856	communication error popup in system after "reconnect" logic in live	OA Ofer Avital
🐞	PZ-7628	Curser: Time difference between curser and y-axis in live	OA Ofer Avital
🐞	PZ-7855	Can't quit full screen	OA Ofer Avital
🐞	PZ-7854	Can't enter full screen mode when using multiple screens view	OA Ofer Avital
🐞	PZ-7852	Frequencies horizontal bar at zoom not shows numerical values at the ends of the...	OA Ofer Avital
🐞	PZ-7637	Show Axes: In cases with a large number of sensors, the screen appears white b...	OA Ofer Avital

⌚ Synced just now • 13 items