



## Pi Dashboard

### Technical Data Sheet

We know choosing a BI provider is a big decision. We are 100% partner focused so we can offer you the flexibility to fully evaluate our solution until you're ready to take it to market. We're embedded BI specialists and act as the brand behind your brand.

## INTERACTIVE DASHBOARDS

- Connect to any/multiple databases
- Access from a web browser
- True real time data
- Any device, anytime, anywhere
- Role-based security



## Zero install on client machines

- Any Windows/Linux/MacOS system with either:
  - Latest Edge
  - Latest Chrome
  - Latest Firefox
- iPad / Android Tablets & Mobiles
- Native HTML5 web application (Responsive)

## Simple, flexible, & secure server install

### Server component

- Choose your preferred location
  - On-premise
  - Cloud
  - Cloud 2 Cloud
- Load Balancing / Failover support (high usage and availability)
- Light footprint installation
- Minimum server specification\*
  - 2 GHz CPU
  - 4 GB RAM
  - 3 GB Disk space

*\* Please note these are the minimum requirements to run the server. System memory requirements are something that can vary from customer to customer, due to difference in how the dashboard is used, the number of users, the data connections used etc, therefore to help illustrate the memory requirements, these can be summarised in a formula (if you prefer to autoscale) or a table with some example user numbers;*

$$Memory = 512 + \frac{1536}{15} * Users$$

**Memory** is the amount of memory allocated to the Tomcat server, and **Users** are the number of concurrent users.

Concurrent Users	RAM (GB)
Up to 5	1
Up to 50	6
Up to 100	11
Up to 500	51
Up to 1000	101

## Server software

- Core Dashboard
  - 64bit Java based
  - Runs inside Apache Tomcat webserver
- Renderer (PDFs and Excel reports)
  - Packaged NodeJS-based application
- Scheduler & Excel Reader
  - Go-based application
- Pirana (analytics engine):
  - Packaged python-based application

## Server operating systems supported

- Windows – is self-contained, with no prerequisites
- Linux – require Java 8 and optionally GLIBC 2.19 or above (for running the graphical configuration tool and pirana)
- Others – via Docker containers

## Deployment options

- Installation Files – we can share these with you
- AWS Marketplace – you can [find us on the marketplace](#), where you can download a ready built instance of the dashboard
- Docker Images – we can whitelist your [dockerhub](#) usernames to provide access to our containers

## Security

- Authentication:
  - Native
  - Windows AD
  - Office 365
  - Keycloak
  - Other OAuth providers
- No data is held on the client device
- Role based access defines what each user can and cannot see
- Audit Dashboard enables user tracking of access and usage
- Supports native HTTPS (or via reverse proxy)
- User restrictions – apply these to control what data can be viewed, without needing to create user specific charts. Ideal for your Sales teams, or for safely and securely exposing parts of the dashboard to customers, suppliers, or other stakeholders

## Application Program Interface (API)

- RESTful XML web service
- Integrated security
- Option to seamlessly integrate with your own installer programmes, via a Silent installer

## Application integration and embedding

- OEM Partners can embed any chart into their own applications (HTML components)
- Ability to embed one chart, one category or the whole dashboard via iframes
- Application chaining – context sensitive drill out to your own or other applications
- Import Excel into your data source
- Export reports to Excel
- Integrate with any SMTP email server

## Styling & Themes

- Logo – add your own logos into the Dashboard, or that of your customers
- Colours & Font – use your corporate colour schemes throughout the dashboards

## Data Connections / Drivers

- Multiple data sources supported in a single dashboard – e.g Sales, Finance, CRM, Support
- No ETL/ELT required – no need to move data from its current location
- All data is actionable in one portal
- Multitenancy / SaaS
- Database introspection
- Free format JDBC drivers available as standard
- Default JDBC drivers shipped include:
  - Apache Drill
  - CONNX
  - Firebird
  - HyperSQL
  - iAnywhere
  - IBM DB2
  - IBM DB2 AS400
  - IMB Informix
  - Ingres
  - InterSystems
  - JConnect
  - MySQL / MariaDB
  - Mondrian OLAP
  - MS Access
  - Oracle
  - Pervasive
  - PostgreSQL
  - Redshift
  - Salesforce
  - SAP
  - SAP WB OLAP
  - Snowflake
  - SQL Server
  - SQLite
  - Sybase/SAP IQ
  - Sybase Advantage

If you have any specific JDBC requirements not listed above, do let us know and we can look to include those for you

## Easy to use and share

### User Experience (UX)

- Feels like a web app rather than a BI tool
- Fun to use, with visual and quick results
- Anyone can create a dashboard

### Value Added Uses

- Exception Reporting
- Office Wallboards – put your dashboards on your office TV's
- Schedule Reports to be created and automatically distributed, using Pi Reports
- What-If Scenario analysis, using Pi Analytics

## Example of a Single Tier Dashboard Implementation

