Differences between Informer 5 and Informer 4

	INFORMER 5	INFORMER 4
TECHNOLOGIES	Javascript, NodeJS, AngularJS, HTML5, Docker, Material Design, PostgreSQL, REST API, HTTP caching, Redis, Elasticsearch, indexing engine, shorter development cycle.	Java, GWT, GWT RPC, Derby DB
DATASOURCES	U2, SQL, and anything else that can produce a JSON stream of data. Easily create a plugin to connect to other sources of data that do not already have connectors provided.	U2 or JDBC compliant database connections.
DATASETS	Datasets are optimized for large number of records, indexed for fast processing, refreshed on a schedule, and shared to Teams. Datasets have a single source of Truth/Data Governance. Simplified database schema, and significantly reduced load on production database.	No
WORKSPACES	Personal Datasource that you can create by dragging on one or more files. Current supported file type is CSV, with more file types coming.	No
CONTENT SERVER	Conduit for connecting to your data, interacting with it, and generating external links to Informer content (Reports, Queries, Visuals, Dashboards) in a governed fashion...without requiring an Informer 5 login.	Java over RMI, remote Java connectivity.

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INTERACTING WITH YOUR DATA	Datasets, Data Flows, Filters. Datasets allow you to filter, pivot, and interact with your data without querying your production database every time.	Queries with run time parameters.
SERVERS - CLUSTERING	Stateless Server. Easy to talk to any server in a cluster. Allows for load balancing and faster performance.	Stateful Server. User session tied to a particular server, so not easy to leverage bank of servers.
QUERIES	*Dataset* • Query result data becomes semi-permanent • Accessed with a simple HTTP call. • Can be Owned and Shared *Ad-hoc Queries* • Provide real-time data access, with temporary, independent result set. • Optionally convert to Dataset. • Can be owned and Shared. For both Dataset and Ad-hoc Queries, use with scheduler (jobs) or API to push/pull data to other systems.	Query result data becomes temporary, in memory. All imported reports become Ad-hoc Queries that can be converted to Datasets.
CANCEL QUERIES	Ability to cancel a query mid-stream.	No
FLOW STEPS	Control the order if data modification happens. Multiple pass calculations. Plugins can be developed to enhance these calculations. JS libraries abound.	Limited options, can't control order.
PLUGINS	Plugins can easily bring in Features, customizations, Datasources, Input forms, Authentication schemes, Flow steps, Mappings, Datasets, Visuals, and other functionality into the system. Typically no need for entire system upgrade.	Harder to do plugins in I4, and limit on what plugins can bring to the application. System will need to be redeployed.

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VISUALS	Many more visual types (charts, graphs, maps, pivot table, data grid). Visuals can be embedded outside of Informer. Embedded Visuals are authorized with a token and backed by Dataset so that images are at the current state. Automatically create Visuals via Informer Discover feature.	Good set of Visuals. Visuals and design: Homegrown.
DISCOVER	Informer Discover will automatically suggest Visuals based on the fields that are selected. Allows the User to visualize their data without having to build Visuals themselves. Save the Visuals to your Dataset and Dashboard. Pin to your Homepage.	No.
DASHBOARDS	Dynamic. Data Providers can live outside of Informer. Visuals show data from the most recent refresh of a Dataset. Dashboard can be embedded outside Informer. Simple Dashboard and Compare Dashboard - provides a side-by-side comparison of visuals based on given criteria and filter.	Dynamic. Visuals show data from the most recent refresh of the Data Providers. Dashboards can be embedded outside Informer.
SCHEDULER (JOBS)	Schedule Dataset refreshes, electronic delivery of content with multiple attachments, push data to other systems via FTP or direct-write. Allows for multiple actions and multiple Datasets and/or Ad-Hoc Queries per Job.	Only reports and Dataproviders can be scheduled. Limited actions for results.
FORMATTED OUTPUT	Wider set of formatted output types will be available.	Good set of formatted output types.

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BIG DATA	Ability to support large volumes and unstructured data.	On Reporting side, no row limit per say. On Dashboard side, with Dashboard upgrade, Informer 4 can support large sets of data given sufficient memory. Cannot support unstructured data.
SECURITY	Informer 5 includes Teams and Users. Data security - row level and field level security. Role based security.	Securing Informer 4 was time consuming.
TEAMS	Security that models your business organization departments. Ownership of content and Sharing of Content – providing Data Governance. Predefined roles within Teams.	Groups with no fixed security roles.
USABILITY	User activity feeds, pin reports to personal homepage, links on the fly, Hotkeys, mobile responsive.	Limited
COLLABORATION	Team members can comment on content (Reports, Datasets, Datasources). Informer Feed shows relevant comments and activity from things you own and things owned by the team, and changes in ownership or content.	No formal collaboration.