



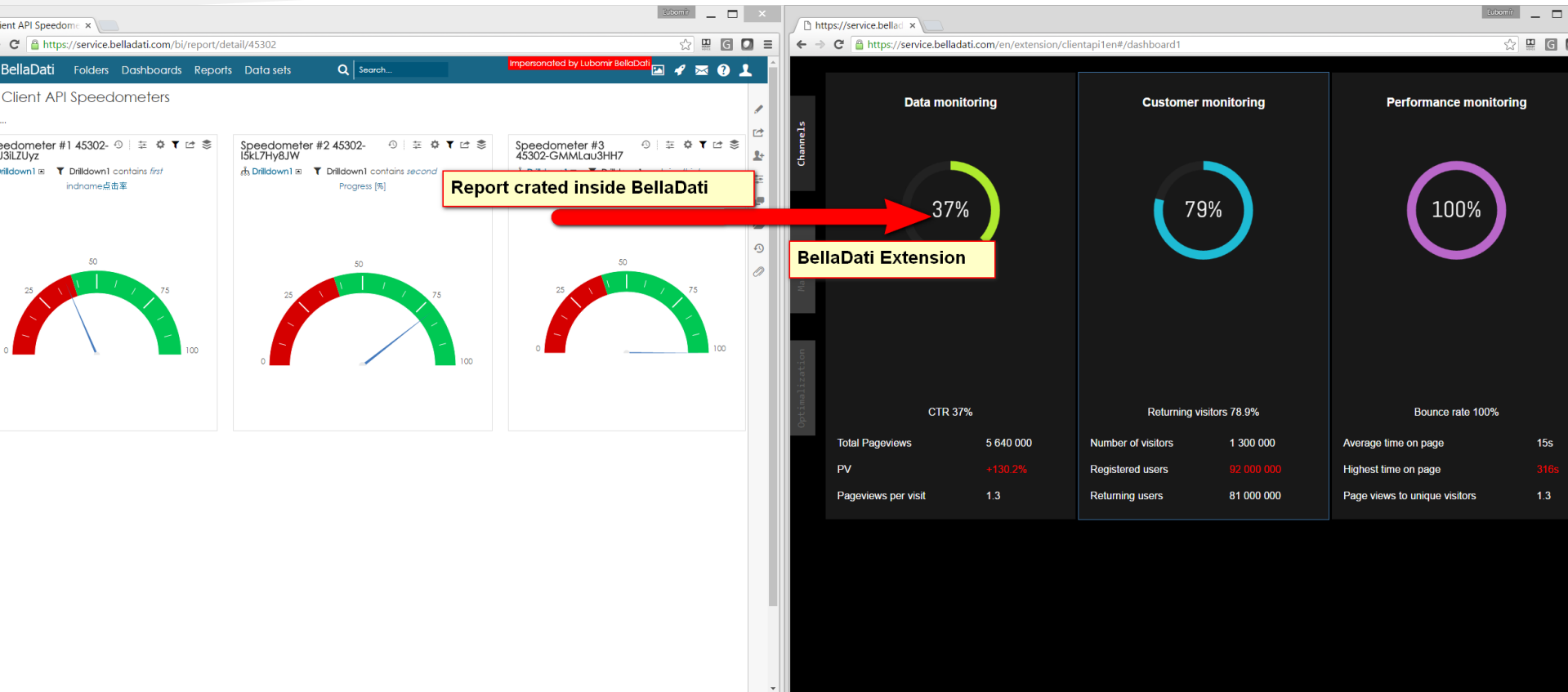
BellaDati Extensions



What are BellaDati Extensions

- Complete and re-distributable package extending BellaDati functions
- May be executed on server and client side (based on type)
- Types of extensions
 - Adding new page to BellaDati (e.g. own visualization)
 - Adding new view type to the report (e.g. own chart etc)
 - Modifying existing pages and content
- Coding standards and frameworks
 - HTML, CSS, Javascript, Groovy
 - BellaDati JS Stack (Charts.js, Map.js, etc)
 - Utilizes Client API and REST API

Type 1 – adding new page



Type 1 – adding new page

- Purely client based
- Defines HTML content and CSS styles
- Uses Client API to get all necessary data
- Incorporates custom Javascript libraries to build the charts – d3.js
- Appears as link in the report menu (may be configured)
- Use cases:
 - Creating fully customized report and visual
 - Creating simplified reporting layer with own workflow of defining report content (e.g. select view type, add indicators, add drill down, display visualization)

Type 2 – adding new view type

The screenshot displays the BellaDati dashboard interface. At the top, there is a navigation bar with the BellaDati logo, menu items for Folders, Dashboards, Reports, and Data sets, a search bar, and a user profile indicator showing 'Impersonated by Lubomir BellaDati'. The main content area features three identical gauge charts, each with a red segment from 0 to 25 and a green segment from 25 to 100, with a needle pointing to 50. A modal window titled 'Add media content' is open in the center, offering two options: 'Image' (with a landscape photo icon) and 'Custom Content' (with a notepad icon). The 'Custom Content' option is highlighted with a red border and contains the text 'New view type'. A 'Back' button is located at the bottom left of the modal. The background of the dashboard is dimmed and contains faint text: 'Click here to create view' and 'Insert new row...'. The footer contains the version information 'BellaDati 2.7.15.6 © 2008 - 2016 product of BellaDati Inc.' and links for Support, Privacy Policy, Data Security, and Terms of use.

Type 2 – adding new view type

- Server and client based
- Defines HTML content and styles
- Defines parameters to be entered by the user
- Integrates custom Javascript libraries
- Use cases:
 - New chart type
 - Navigation and media elements
 - Customized style of the entire report

Type 3 – modifying content and workflow

- Server and client based
- Defines and HTML content and styles
- Selects the existing component to be replaced (e.g. list of data sets, list of reports)
- Utilizes REST API and Client API endpoints
- Maintains the state by storing data into BellaDati user storage
- Defines the flow of the screens
- Use cases:
 - Customize import workflow
 - Customize report creating process
 - Customize visual of the existing pages

Type 3 – modifying content and workflow

- Example: customize import workflow
 - Idea: simplify the import process by using external metadata
 1. Replace the content of the “Upload from data source”. E.g. by adding custom list of sources
 2. Define event handler and logic behind (may be front-end or back-end based, frontend = javascript, backend = Groovy).
 3. Prompt user to either select from existing connection or to provide own connection parameters
 4. Define validation, consequent logic and back-end computing, e.g. reading metadata from external storage, configure import settings (using REST API), set data source schedule or execute immediately
 5. Redirect use to the newly created data set overview page