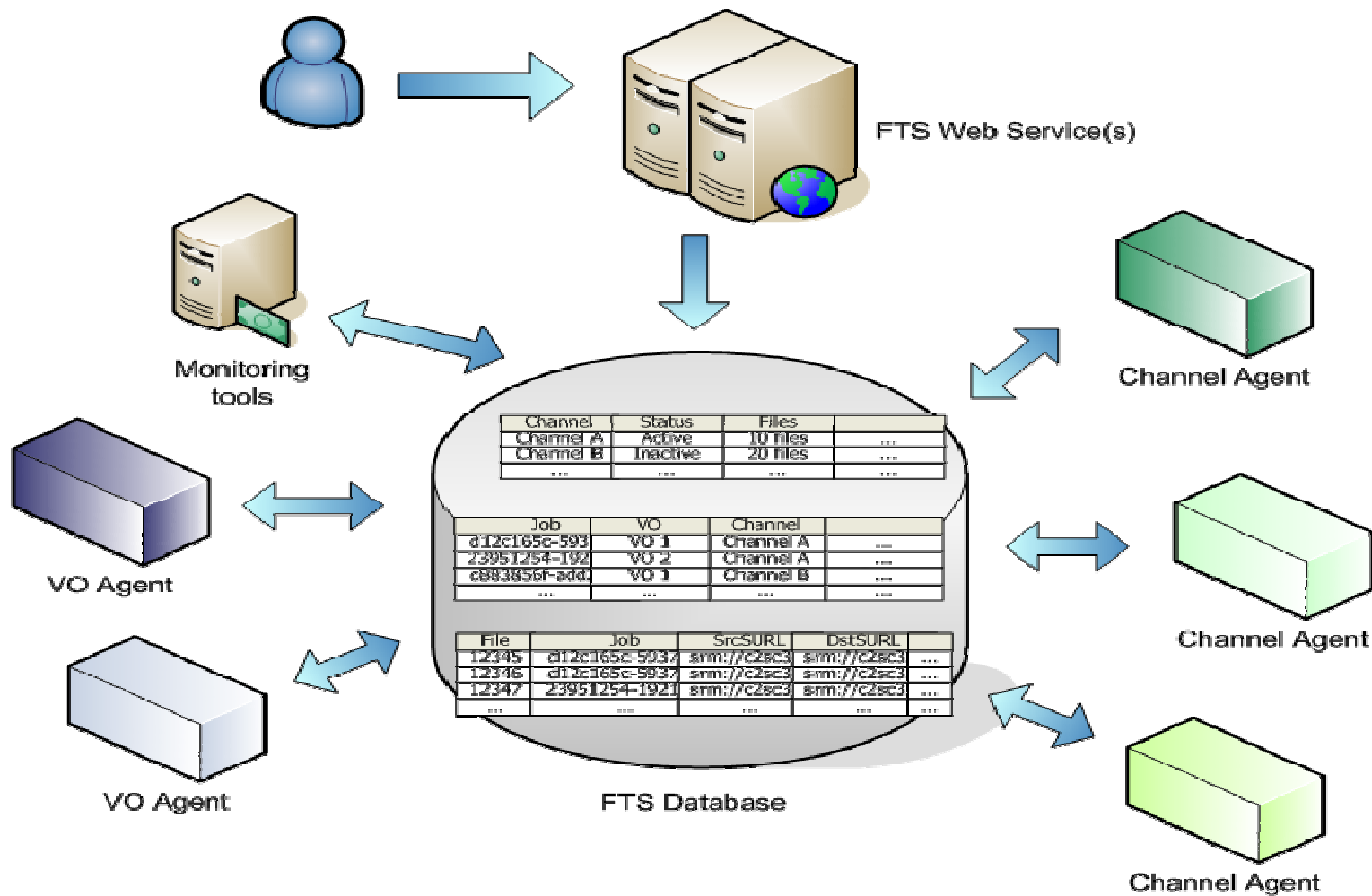


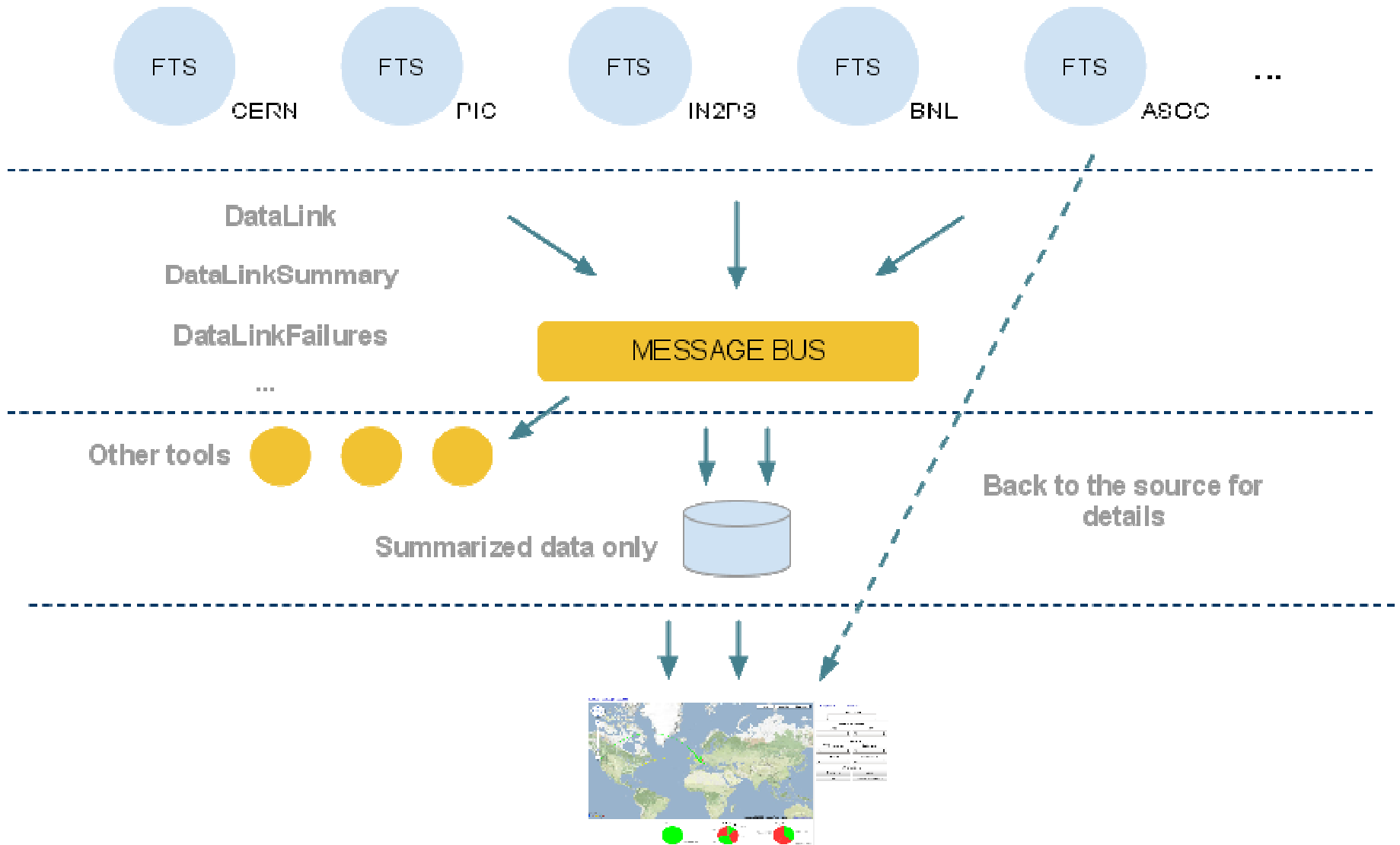
The session title 'Session: Dashboard for the FTS' is centered on the page. It is enclosed within a pair of large, blue curly braces, one above and one below the text. The background of the slide features a decorative orange and white grid pattern on the left side.



*Picture from FTS team*

- **File Transfer Service (FTS) instances are distributed**
  - ... and so is the information they contain
- **Centralize activity summary data**
  - ... correlation between multiple FTS instances
  - ... avoiding large scale databases
- **Provide a single entry point web application**
  - ... quick overview of the whole service activity
  - ... additional detailed debugging information
- **What else ?**
  - ... storage usage
  - ... ?

- **Standardize monitoring messages**
- **Publish them via the Message Bus (MSG)**
  - ... allowing usage from other applications
  - ... monitoring, operation tools, etc
- **Provide HTTP access to this data**
  - ... in JSON format, other formats available
- **Build a smart web client**
  - ... consuming these messages
  - ... using GWT (Google Web Toolkit)



- **Ongoing Process**
- **Transparency**
- **Modularity**

```
{
  "srcSite": "CERN-PROD",
  "srcSpaceToken": "DATADISK",
  "destSite": "IN2P3-CC",
  "destSpaceToken": "DATADISK",
  "startTime": "2009-10-01T10:20:00",
  "endTime": "2009-10-01T10:30:00",
  "numTransfers": 1000, "numBytes": 20000000,
  "avgTransferDuration": 15, "maxTransferDuration": 42,
  "minTransferDuration": 5,
}
```

```
{
  "srcSite": "CERN-PROD",
  "srcSpaceToken": "DATADISK",
  "destSite": "IN2P3-CC",
  "destSpaceToken": "DATADISK",
  ...
  "failures":
  [
    {
      "scope": "SOURCE",
      "category": "TRANSFER_ERROR",
      "phase": "TRANSFER",
      "sampleMsg": "The server responded ...",
      "sampleSurl": "srm://srm.triumf.ca...",
      "sampleTransferId": "10d01c8e-9614..."
    },
    ...
  ]
}
```

DataLinkSummary

DataLinkFailures

**<https://svnweb.cern.ch/trac/dashboard/wiki/MessageDefinition>**

- **Web 2.0**
- **Cross domain access**
- **Multi browser compatibility**
- **Widget based development**
- **Decent IDE availability**
- **== GWT (Google Web Toolkit)**





- **Smart Web Client**

- ... requiring connection to multiple servers

- **XmlHttpRequest ?**

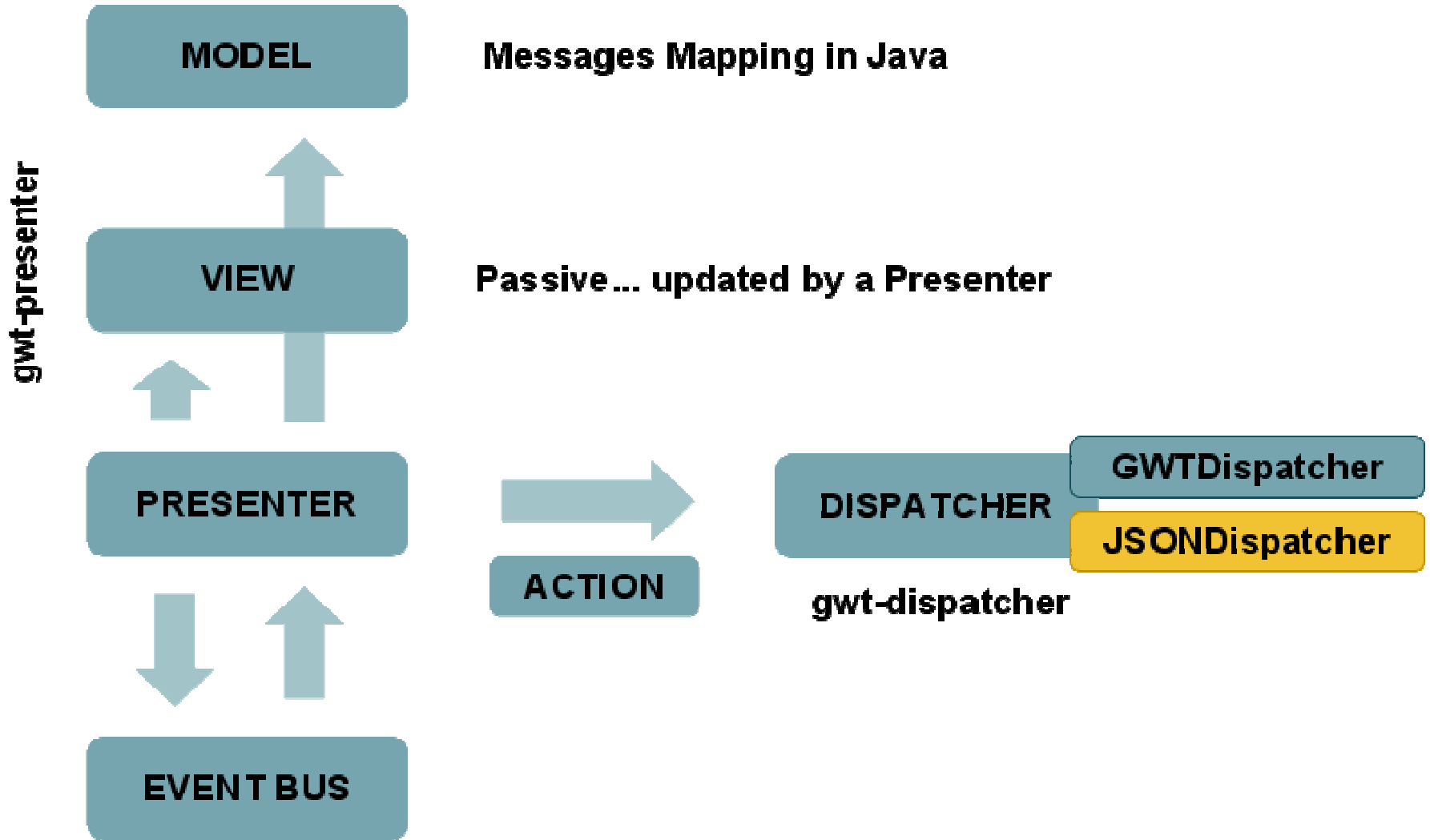
- ... it is subject to the “same origin policy”

- **<script> tag is not :-)**

- JSONP is JSON with padding
- <http://foo/bar?callback=mycallback>

```
<script type="text/javascript"
src="http://foo/bar?callback=mycallback"/>
```

```
mycallback(
{
  "srcSite": "CERN-PROD",
  "srcSpaceToken": "DATADISK",
  "destSite": "IN2P3-CC",
  "destSpaceToken": "DATADISK",
  "startTime": "2009-10-01T10:20:00",
  "endTime": "2009-10-01T10:30:00",
  "totalFailures": 25,
  "failures":
  [
    {
      "scope": "SOURCE",
      "category": "TRANSFER_ERROR",
      "phase": "TRANSFER",
      "type": 10,
      "sampleMsg": "The server respond...",
      "sampleSurl": "srm://srm.triumf....",
      "sampleTransferId": "10d01c8e-96...",
    },
    ...
  ]
})
```



```

<gwt:UiBinder xmlns:ui="urn:ui:com.google.gwt.uibinder"
  xmlns:gwt="urn:import:com.google.gwt.user.client.ui"
  xmlns:overview="urn:import:ch.cern.dashboard.client.ui.overview"
  xmlns:data="urn:import:ch.cern.dashboard.client.ui.data"
  ...
>
  <gwt:VerticalPanel>
    <gwt:FlowPanel>
      <gwt:Anchor text="Status" styleName="toplink"/>
      <gwt:Anchor text="Storage" styleName="toplink"/>
      <gwt:Anchor text="Details" styleName="toplink"/>
      ...
    </gwt:FlowPanel>
    <gwt:DeckPanel ui:field="deck">
      <overview:OverviewView ui:field="overviewView"/>
      <data:MapView ui:field="mapView"/>
      ...
    </gwt:DeckPanel>
  </gwt:VerticalPanel>

```

**<https://svnweb.cern.ch/trac/dashboard/wiki/DeveloperGWT>**

- **Prototype using the T0 export FTS instance**
- **Ready for experts**
  - ... by the end of October
  - Finish widgets, review data messages
    - ... charts, treemap, etc
    - ... integrate storage usage information
- **Ready for all users**
  - ... by the end of the year
  - With data from all FTS instances
- **Future**
  - Integrate VO specific information
    - File grouping (datasets), subscription tracking, ...

# { Questions }

<https://svnweb.cern.ch/trac/dashboard/wiki/DeveloperData>