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Mediation Architecture Document

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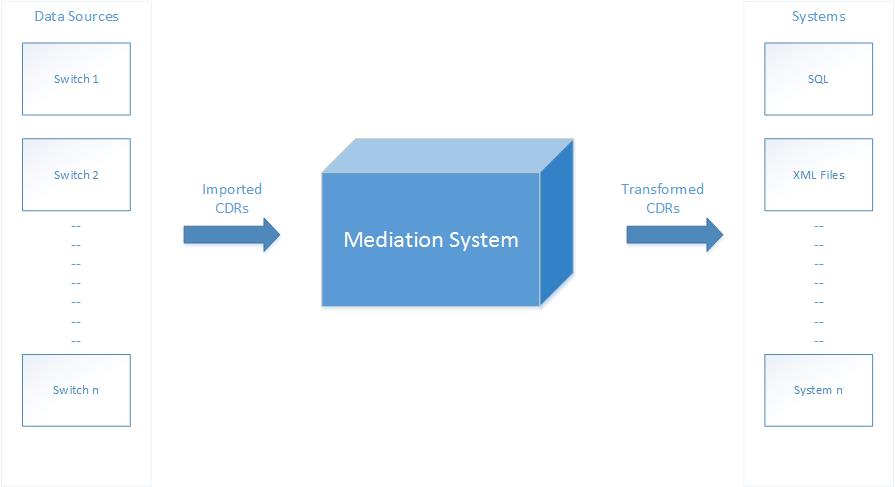
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# Document Purpose

The purpose of this document is to put a technical architecture of the new Mediation System.

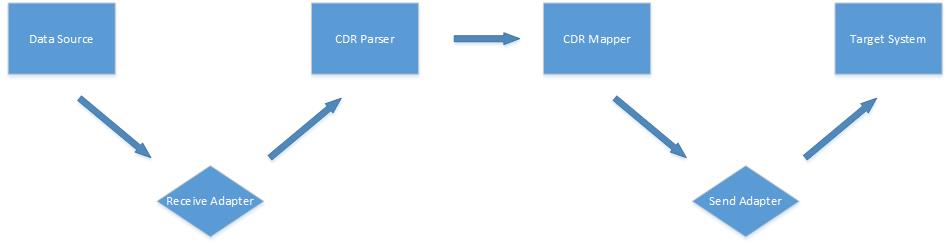
# System Overview

The Mediation System is a middleware system that would connect to one or multiple data sources, collect CDRs, transform them to specific format, and deliver them to one or more systems (e.g. databases, files…).



## Data Flow

The data flow in the Mediation system is depicted in the following diagram:



|  |  |
| --- | --- |
| Part | Description |
| Data Source | The switch/gateway to import CDRs from |
| Receive Adapter |  |
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## Technical Aspects

The system shall have the following technical aspects:

|  |  |
| --- | --- |
| Feature | Description |
| Dynamic | The system data flow shall be configuration-driven starting from the connection to the data source(s), manipulating the imported data, until delivering the data to the target system(s) |
| Extensible | The system shall deal with abstract definitions of almost all parts of the data flow (e.g. data source adapters, data parsers, data transformations, target system adapters…). And it shall be possible to build and implement parts in a flexible manner |
| Performance | The system shall be highly performing especially in term of data flow speed |
| Data Validation and Accuracy | The system shall comply with all required data validation and ensure data accuracy and integrity |
| Control and Visualization | The system shall give a set of visual tools to visualize the system business processes and to take actions |
| Troubleshooting | The system shall implement logging and tracing in an efficient way and shall give visual tools in order to maintain the system and troubleshoot any issues. In addition it generate alerts and notifications in case of errors and warnings |
| Security | The system shall ensure secure access to all system modules and data |

## Technical Modules

The system shall have the following modules:

|  |  |
| --- | --- |
| Module | Description |
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