

SAP NetWeaver BI Accelerator and BI Integrated Planning*

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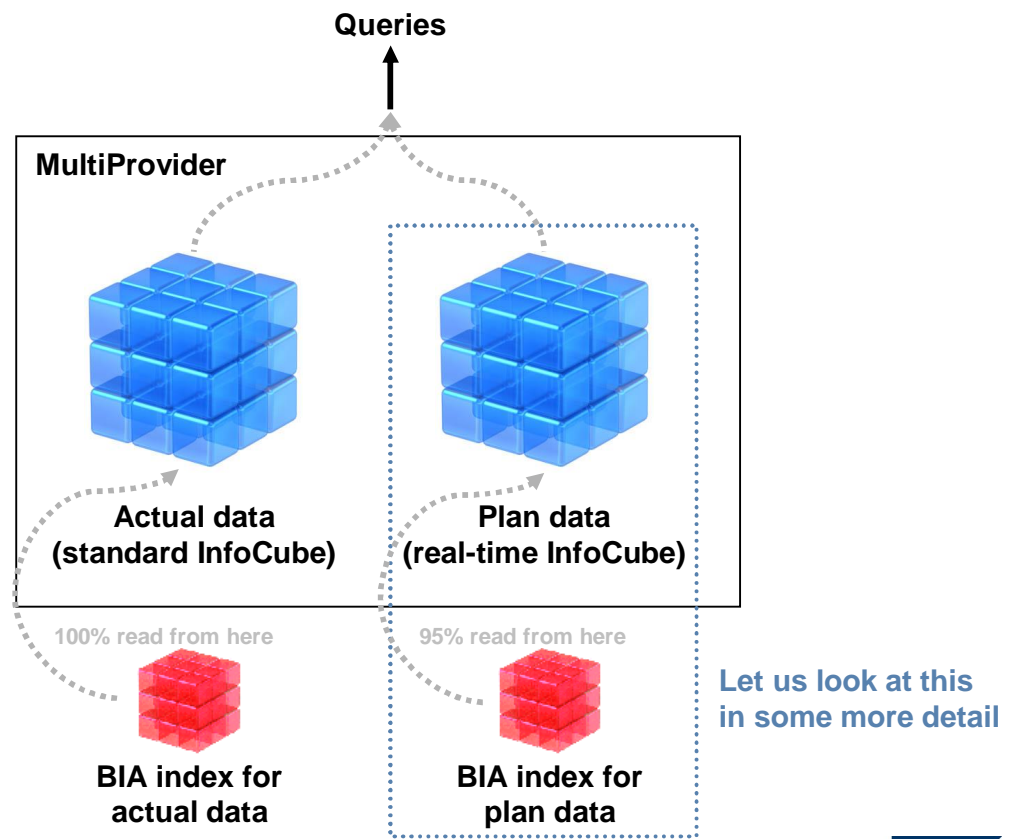
* Also SEM/BW-BPS

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How does SAP NetWeaver BI Accelerator work with BI Integrated Planning?

- When plan data is entered, it is written to a real-time InfoCube data request (yellow open request). As soon as the number of records in a data request exceeds a threshold value, the request is closed and rolled up asynchronously into the BI accelerator index.
- The BI analytic engine reads and combines the data from the plan buffer cache, the open data request, and the results from the BI accelerator query. The BI accelerator query reads all indexed data, which includes the data from any closed real-time data requests and the standard InfoCube.

Typical Planning Setup



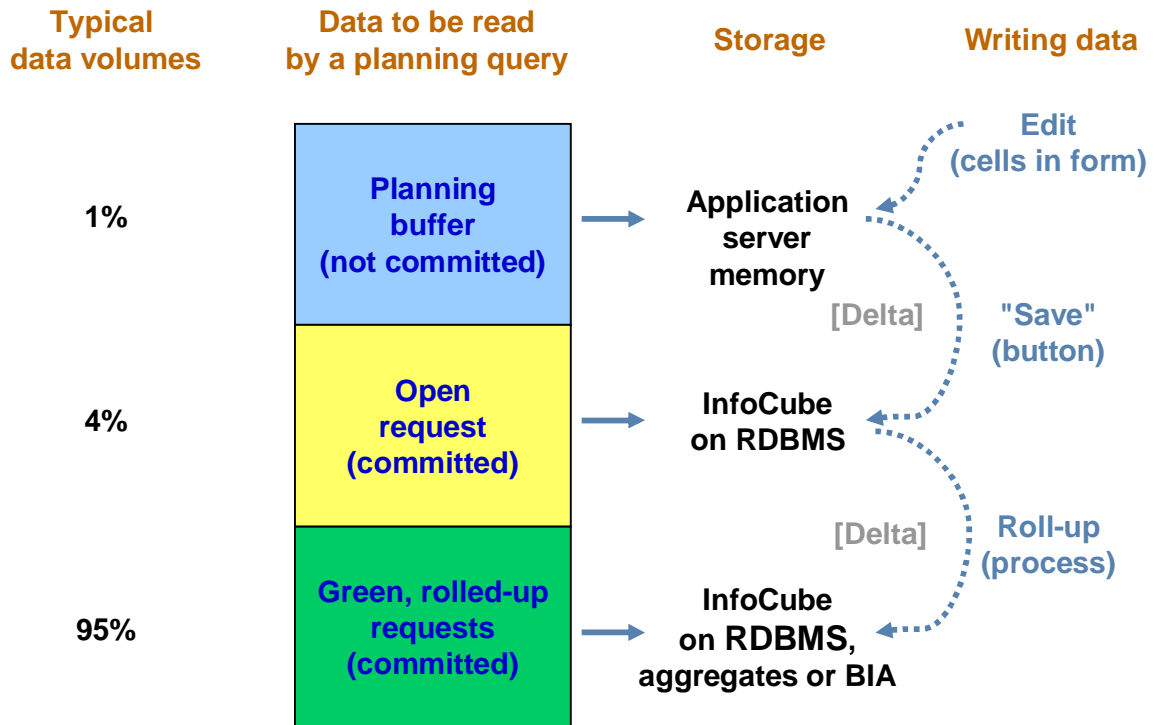
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This slide describes the typical planning setup. The planning architecture is as follows:
We store our actual data in a standard InfoCube and our plan data in a real-time InfoCube. There is also a MultiProvider for reporting, which is based on this InfoCube. To improve performance, we have created a BI accelerator index for the standard InfoCube and for the real-time InfoCube.

Real-Time InfoCube, BI Accelerator, and Delta Buffer



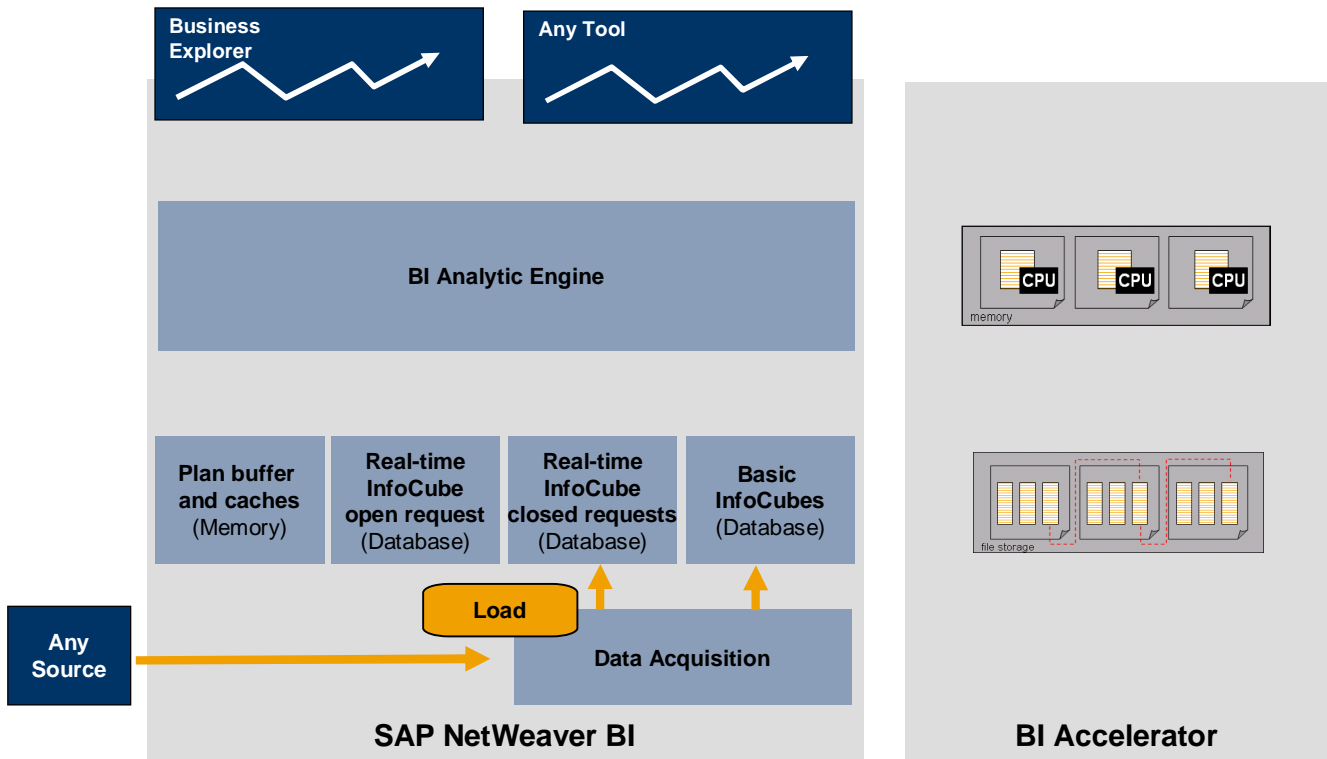
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Planning methods work with data that is stored in a **buffer**. This is called the **planning buffer**. All changes to the data are written to this buffer. We can save the data at any time; the data is written to the open request of the real-time InfoProvider. As soon as the number of records in a data request exceeds a threshold value, the request is closed and rolled up asynchronously into the BI accelerator index.

Step 1: Data Load



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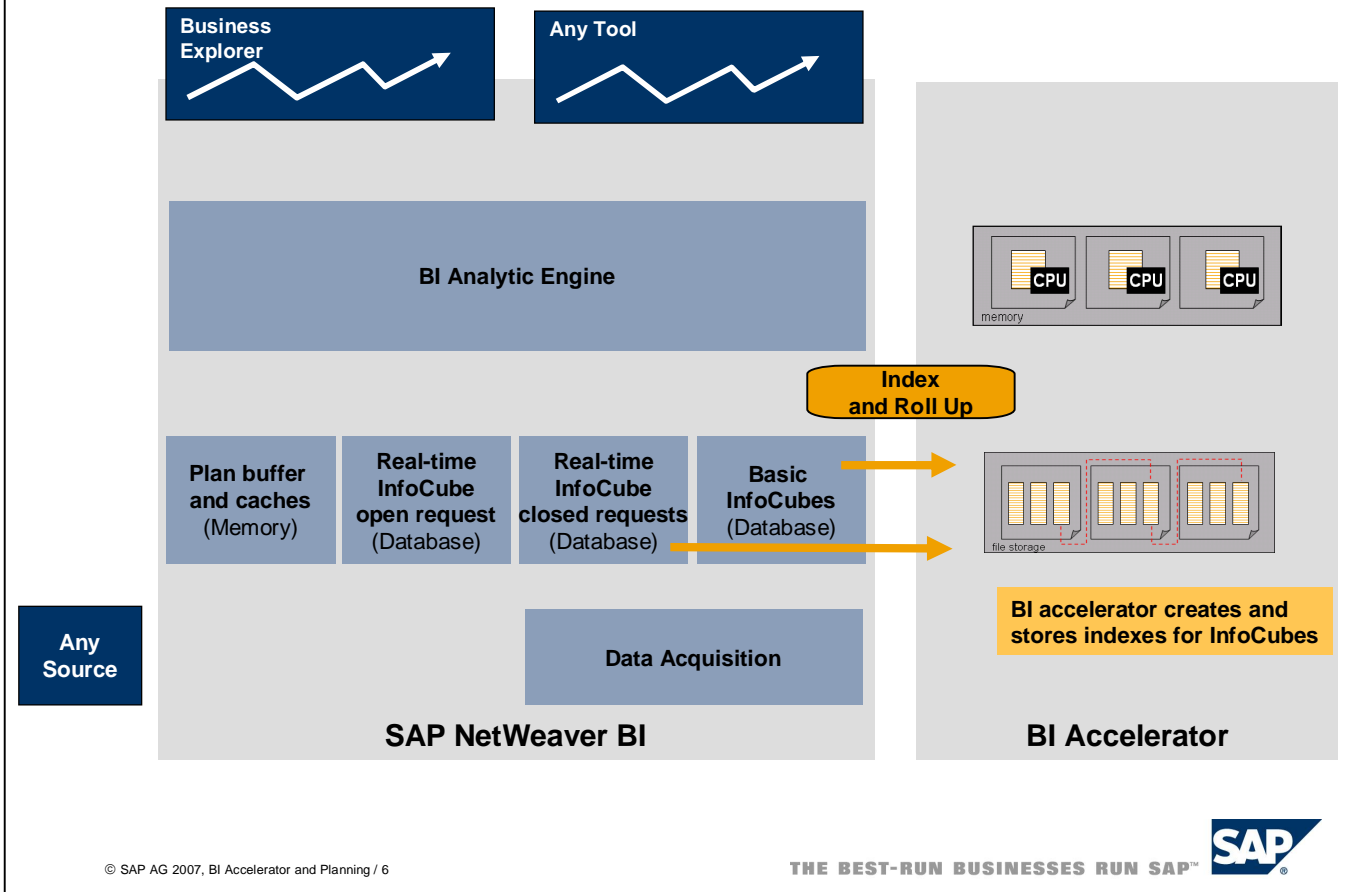
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■ BI Accelerator for Planning: Data Load

When plan data is entered, it is written to a real-time InfoCube data request. As soon as the number of records in a data request exceeds a threshold value, the request is closed and rolled up asynchronously into the BI accelerator.

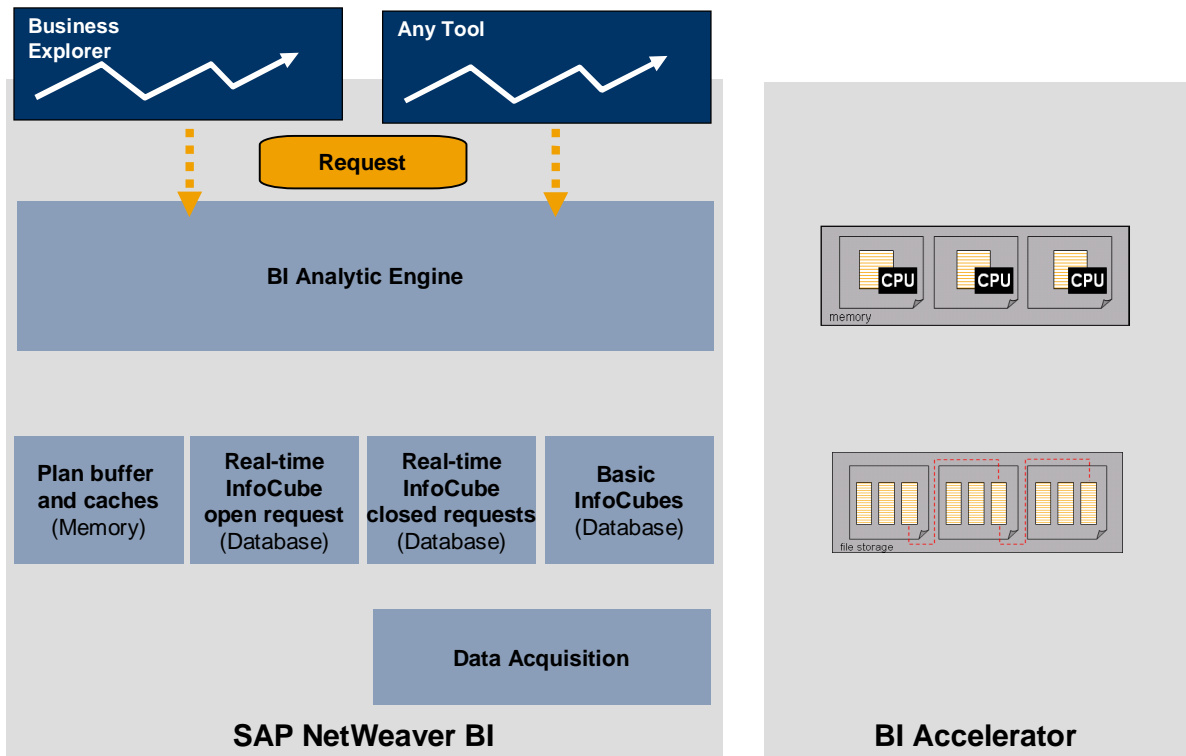
Step 2: Indexing and Asynchronous Roll Up



■ BI Accelerator for Planning: Indexing and Asynchronous Roll Up

When plan data is entered, it is written to a real-time InfoCube data request. As soon as the number of records in a data request exceeds a threshold value, the request is closed and rolled up asynchronously into the BI accelerator.

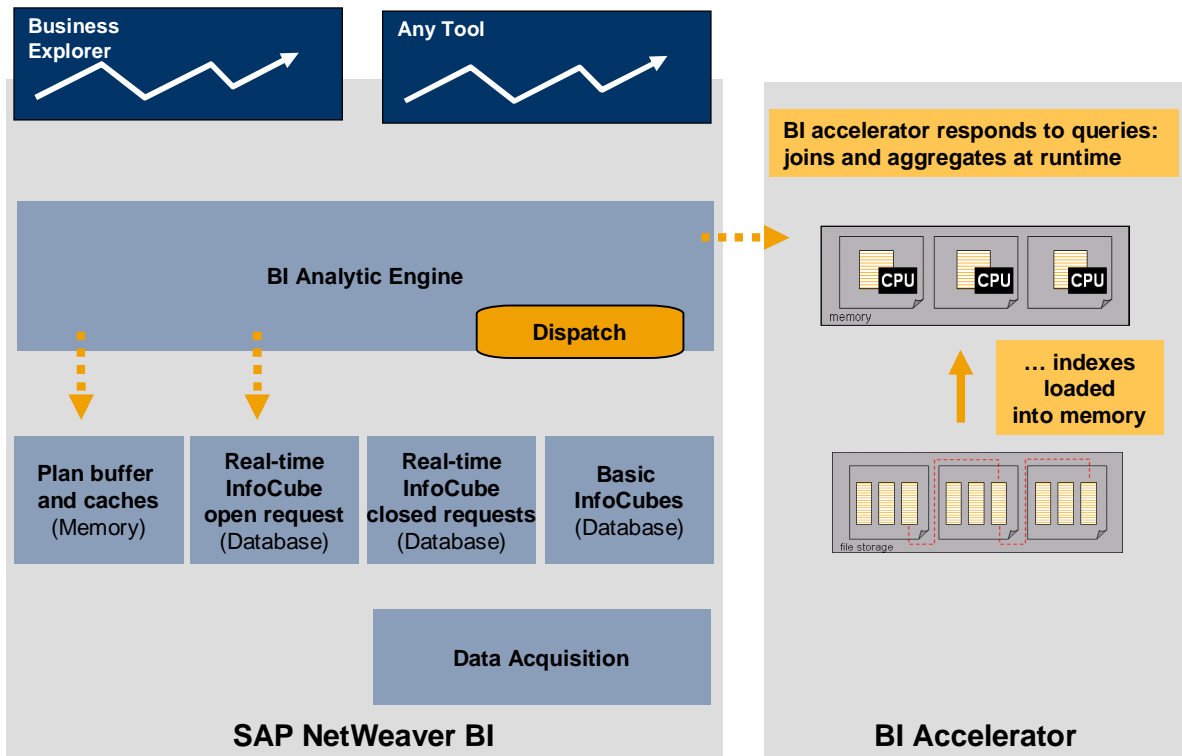
Step 3: Execute Query



■ BI Accelerator for Planning: Execute Query

The BI analytic engine reads the data from the plan buffer cache, the open real-time data request, and the results from the BI accelerator query. The BI accelerator reads the data from the closed real-time data request and the standard InfoCube.

Step 4: Dispatch Query



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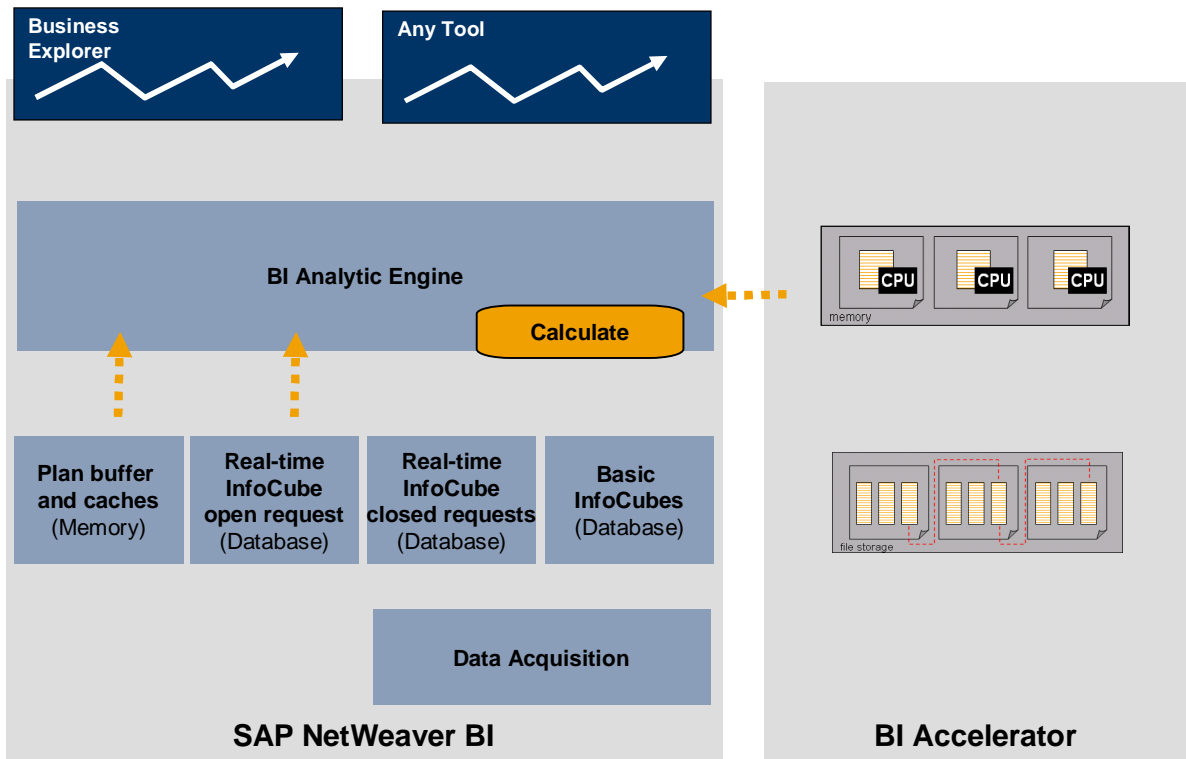
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■ BI Accelerator for Planning: Dispatch Query

The BI analytic engine reads the data from the plan buffer cache, the open real-time data request, and the results from the BI accelerator query. The BI accelerator reads the data from the closed real-time data request and the standard InfoCube.

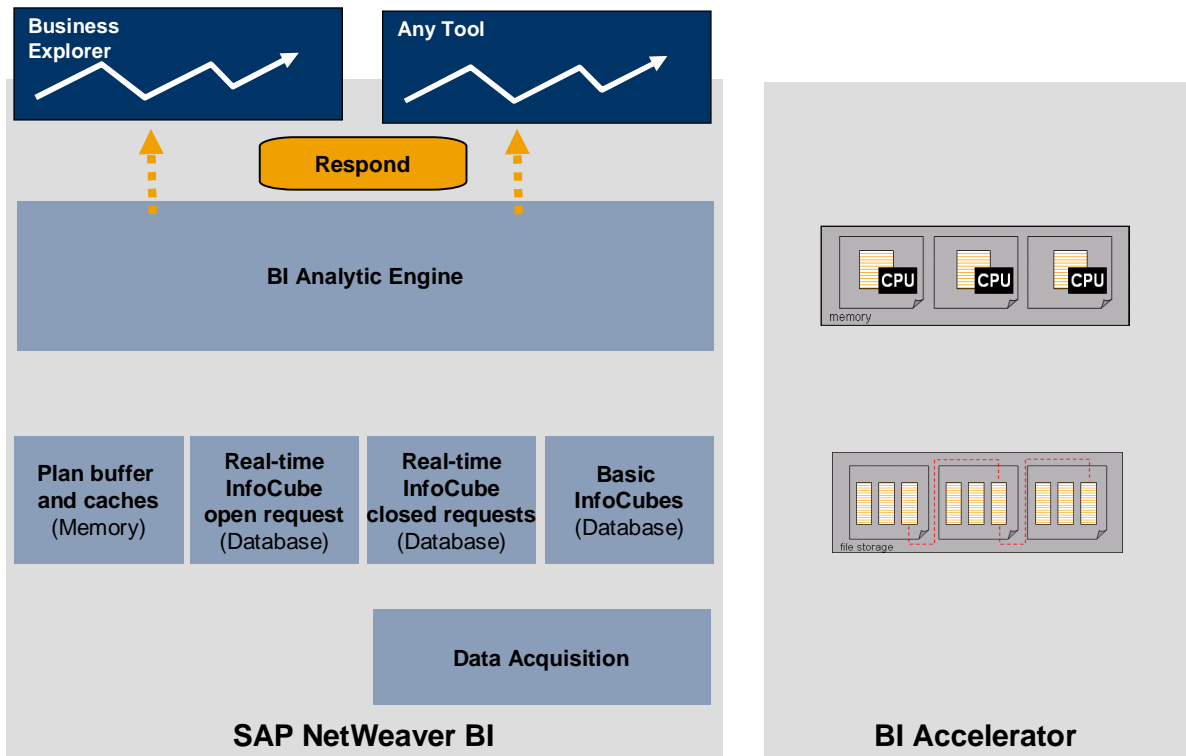
Step 5: Consolidate Results



■ BI Accelerator for Planning: Consolidate Results

The BI analytic engine calculates the data from the plan buffer cache, the open real-time data request, and the results from the BI accelerator query.

Step 6: Return Results



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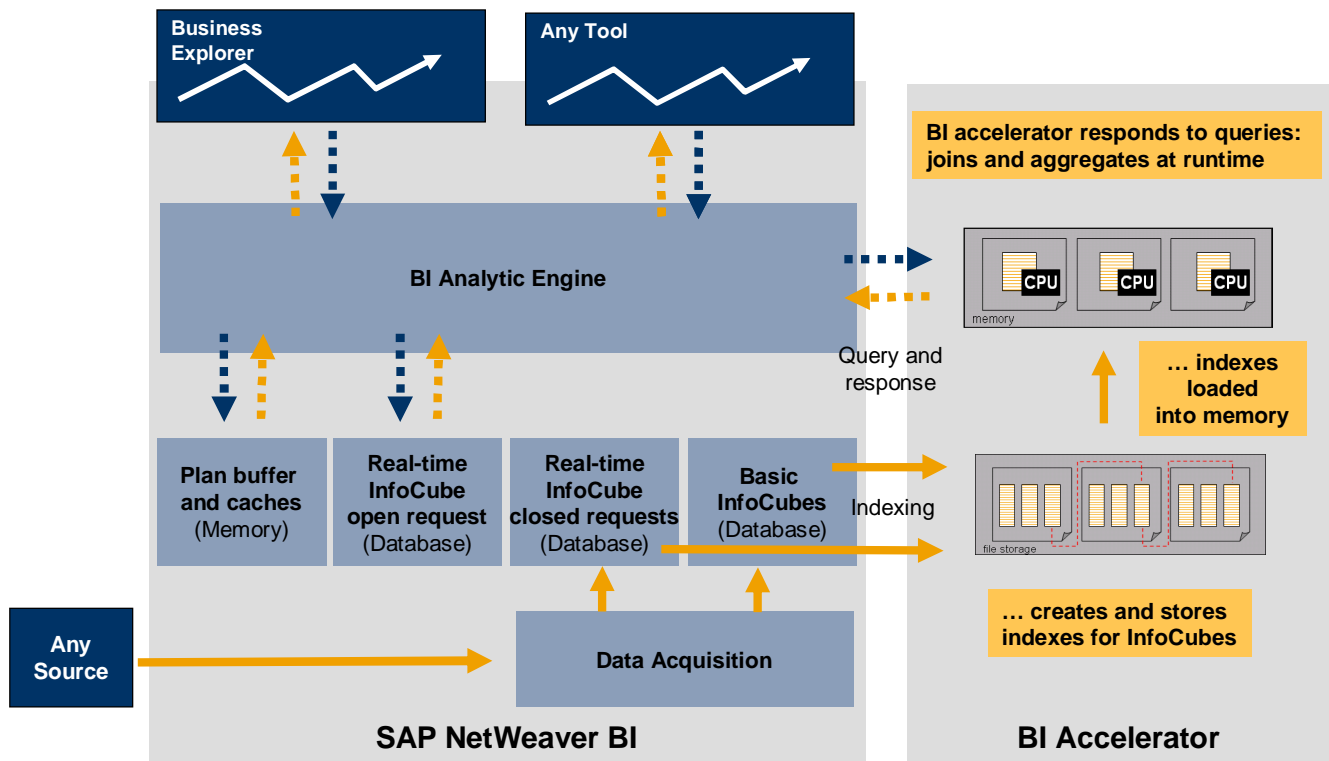
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■ BI Accelerator for Planning: Respond

The BI analytic engine provides the response to the front end.

User Experience: BI Accelerator for Planning



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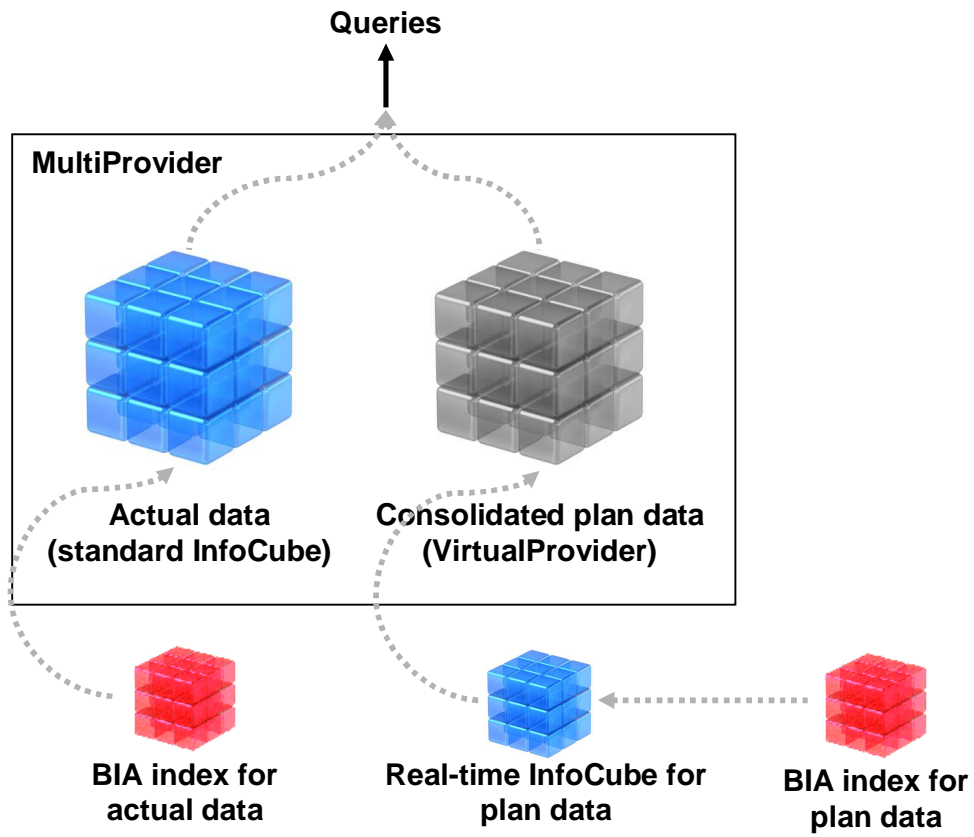
■ BI Accelerator for Planning

When plan data is entered, it is written to a real-time InfoCube data request. As soon as the number of records in a data request exceeds a threshold value, the request is closed and rolled up asynchronously into the BI accelerator.

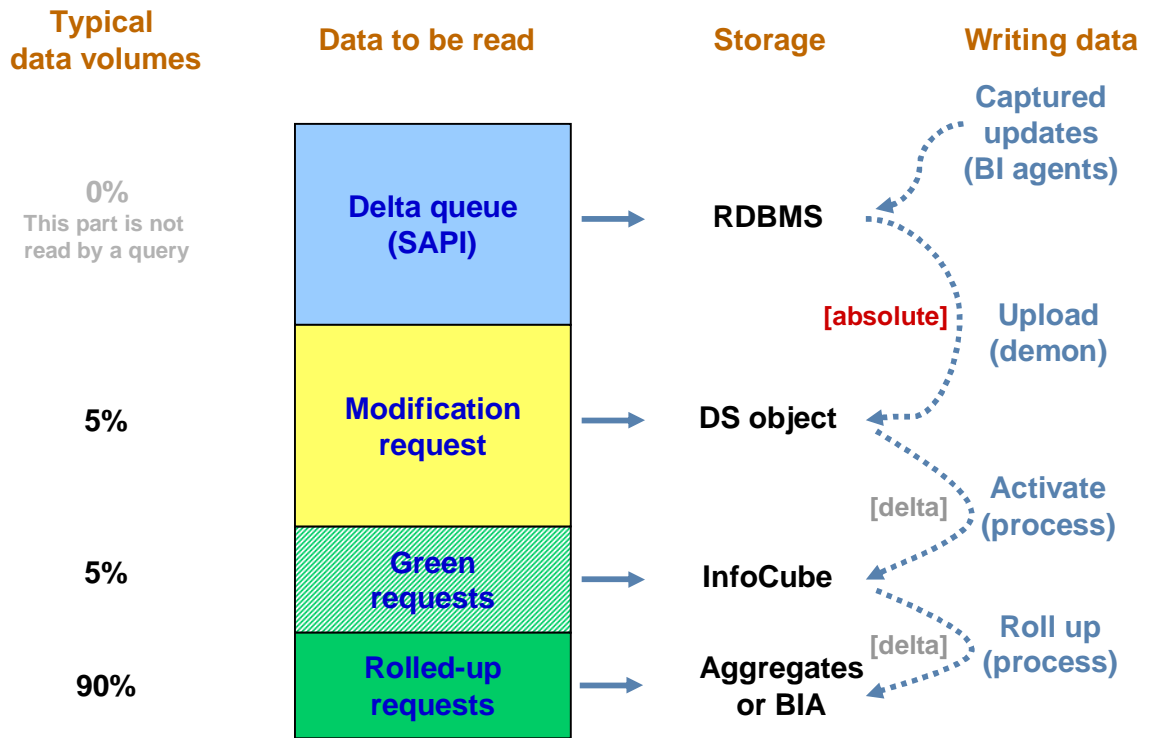
The BI analytic engine reads the data from the plan buffer cache, the open real-time data request, and the results from the BI accelerator query. The BI accelerator reads the data from the closed real-time data request and the standard InfoCube.

Appendix

Planning Setup with VirtualProvider (SEM-BCS)



Comparison: HybridProvider (Next SAP NetWeaver Release)



BI Accelerator Architecture (incl. Planning)

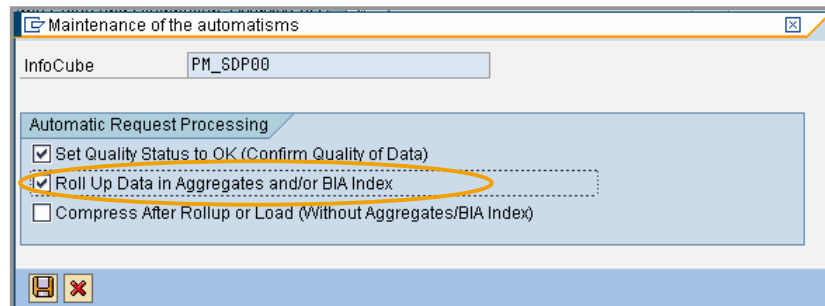
How is data rolled up to the BI accelerator?

When plan data is entered, the data is written to a real-time InfoCube data request. As soon as the number of records in a data request exceeds a threshold value, the request is closed and a rollup is carried out for this request in defined aggregates (asynchronously) or in the defined BI accelerator.

Prerequisite:

The system must roll up each data package in the aggregate automatically.

1. On the *Manage Data Targets* screen, choose *Environment -> Automatic Request Processing*. The *Automatism Maintenance* dialog box appears.
2. Under *Automatic Processing*, set the *Roll Up Data into the Aggregate* indicator.
3. Save your entries.



Comment:

- When plan data is entered, the data is written to a real-time InfoCube data request. As soon as the number of records in a data request exceeds a threshold value, the request is closed and a rollup is carried out for this request in defined aggregates (asynchronously) or in the defined BI accelerator.