Recovery AssuranceExpert
for DB2 z/OS

- Drastically reduce IT risk associated with data availability and recovery
- Provide regular, e.g., daily, health check KPIs and database reports
- Make complex infrastructures transparent
- Support flexible DB2 system changes by pinpointing the resulting effects
- Pinpoint necessary actions before an outage occurs
- Transform extensive database checks into easy to use overviews as well as detailed reports
- Provide cause-and-effect history
- Support auditing and legal requirements, e.g., Sarbanes Oxley, Basel II

Recovery AssuranceExpert (RAX) checks, measures, and analyzes every component of your DB2 z/OS databases, enterprise-wide, to assess its ability to be recovered in the event of failure or data loss.

Combining recoverability measurements with availability checks, RAX reports data availability on a scale of 0 to 100 — the higher the Key Performance Indicator (KPI), the better the recoverability. KPI is a single, comprehensive indicator of the recovery health of the database.

The product verifies all prerequisites for recovering data and restarting a production database and provides a transparent look into the complex interplay of all the factors affecting data availability and recovery.

RAX drastically reduces Information Technology (IT) risk through expert assessment of:

- Important DB2 settings, such as DB2 logging, buffer pools, DSNZPARMs
- Optimization recommendations for critical DB2 processes
- Recovery prerequisites
- Recovery service levels (RSL) and recovery time objectives (RTO)

From a business perspective, database health checking assures business continuity through data availability and fail-safe recoverability. DB2 systems are not static. Therefore structure and environmental changes in processes must be flexibly managed and their effects on the database easily seen.

RAX makes this possible through periodically scheduled automated assessments, thereby transforming risks into measurable and calculable factors.

REPORTING CRITICAL FACTORS

With the RAX early warning system, the need for any proactive or corrective action is automatically alerted. When RAX indicates that action is needed, easy-to-use drill down reporting shows at a glance all the details necessary for the responsible IT staff to find and correct potential problems.

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Runs on a scheduled basis without interaction and without disturbing the production environment

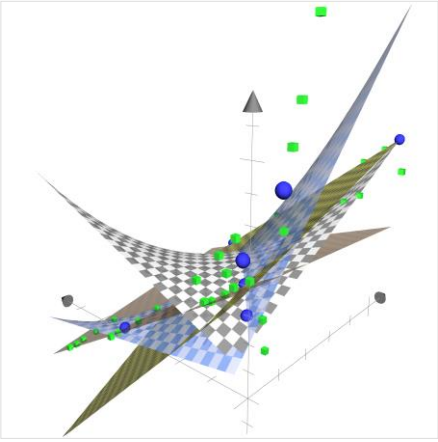
Analyzes DB2 parameters and DB2 internals

Estimates recovery times for each DB2 object

Suggests optimization hints

Automatically aligns to the infrastructure

Provides different result sets:
– Management overview
– Business overview
– Technical overview



Efficient high speed processing using bilinear interpolation

Additionally, ☐RAX provides key performance indicators (KPI) that report operating efficiency and monitor critical processes.

- **System KPI** results from checks of critical factors and database settings including DB2 parameters and DB2 internals; including:
  - DB2 logging
  - UoW processing
  - Buffer pool
  - Group and group buffer pools (data sharing)
  - Coupling facility (data sharing)

- **Application KPI** results from forecasts of recovery time objectives for each DB2 object based on a two-step approach:

  1. KPI alignment to a specific environment — The tool aligns itself to a specific environment taking into account factors such as device type, allocation, deallocation, OPEN, CLOSE, READ, calls, seeks.

  2. KPI forecast of recovery service levels — Specifically, forecasted time to restore, log apply, and log scan are considered in order to determine the actual recovery times needed for all DB2 objects.

- **Availability KPI** represents the entire health check analysis. By rating and weighing all results of the health check, this KPI presents an overall availability and recovery indicator. This KPI serves as the early warning system to upper management

TAKING CARE OF THE BUSINESS NEEDS

There is no such thing as universally accepted objectives for database health because the costs of data availability and recoverability must also be considered.

With ☐RAX, both the management and the IT staff have the information needed to accurately balance enterprise data availability with the business needs.

The risk management process for a recovery must be an ongoing, proactive, daily process that only automation can provide.

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