RAPTOR
Rapid Application Programming Tool for OLAP (Online Analytical Processing) Reporting

RAPTOR is a unique OLAP/data warehousing system for creating custom online reports. Using standard data sources, the tool can generates reports in specified formats (text or graphs) using user-specified business rules. The tool gives the flexibility of predefining data drill-down paths for OLAP functionality. Reports can be preserved, updated, and shared with other users based on individual user and group security permissions. Users can also specify pre-defined report schedules, and receive report execution notification. All of these features are available to the end users through a standard web interface, needing minimal or no user training.

RAPTOR is developed using XML, Oracle database and J2EE middleware compatible with any open Java application server. It is fully object oriented and modular. RAPTOR reports can be created in two ways via the web browser without ANY client tool installation. Business users who do not have exposure to SQL can use a wizard-based interface. Power users, on the other hand, have the capability of using the SQL/PL-SQL code builder of RAPTOR and generate complex OLAP reports. RAPTOR is fully database configurable and has dynamic data dictionary field discovery capability.

RAPTOR is already in use by numerous applications within AT&T, ranging from data warehousing, knowledge management, as well as business monitoring and control applications using large scale of data size and complexity.

Sample Report

Report Creation Wizard
**Architecture**

RAPTOR Capabilities

- Automated Report definition wizard interface with extensive features
- Flexible filtering/sorting/grouping
- Support for HTML, CSV, TXT, XLS and XML data formats
- Cross-tab reports
- Custom SQL-based reports
- XML-based SQL construction on the fly
- Run-time parameters (drop-downs, radio buttons, check-boxes, multi-select, etc)
- Charts (including multi-series charts) with selectable chart colors/sizes/labels
- Custom SQL-selectable form field lists
- Color-coding for output data values
- Data drill-down
- Advanced report formatting – including page headers, footers and subtitles
- Execution Scheduling
- Execution log

- Runtime display parameters for embedding RAPTOR reports in other screens
- Matrix-type user/role security definition
- Conditional email notification
- XML import ability
- 100% web based and thin client Tool for reports design and execution; No plug-in or installation needed.
- Easy to use – no formal training required
- Support for business and power users
- Built-in unique Web based SQL builder for power users
- Elimination of third-party data warehousing tools
- Support for cluster/grid architecture