



Strategies for Leveraging your Investment in Legacy Software supported by ITP-PANORAMA

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If you have any of the following:

- Complex, heterogeneous applications that are ten to twenty years old
- Technical documentation of your legacy applications that is not sufficient nor up-to-date
- Developers who wrote your software are no longer with the company or are going to retire soon
- Too much of the knowledge of applications is in the brain of few developers
- Too much knowledge is no longer with your own team but with outsourcing providers
- It is difficult to judge and control the work of outsourcing providers
- Cost of maintenance and modernization of legacy applications is much too high
- Budget cuts are forcing IT to reduce costs
- You carry a change request back-log with the consequence that Time to Market of change requests is too long

Then you should have a strategy that saves the investment that your organization has put in the current software. What should you do?

- Re-writing the software sounds good, but carries a lot of challenges
- Who knows all the business processes that are supported by today's applications?
- How much would it cost and can we afford it.

Here are your options, called the 5 Rs:



- Redesign
- Rehost
- Retain
- Replace
- Retire

Whatever you want to do with your legacy software, one thing you have to do first:

Get the source code clean!

Generations of developers have been working on your applications. Not only are they poorly documented, they likely have many hidden problems.

- Unused
 - Programs, Sections, Paragraphs,
 - Modules, Copybooks, DDLs
 - Tables, Files, Records, Code lines
- Unclosed
 - Files
 - Cursors
- Missing Code
- Open links

How do you find all these bugs and errors? You can have your already overworked staff dig through all the code (which can take weeks or months) or you can use technology that is available from ITP. With our technology, it takes only an hour to process 30 Million LOC and make the code transparent; showing all of the above.



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Processing includes:

- Scanning all applications
- Compiling all programs (Making the same checks as the compiler does)
- Extract every detail of the software
- Cross reference check all dependencies and relationships over all applications
- Build online, real-time, technical documentation of all applications in an **"in memory" OLAP HyperCube repository**

Once the repository is created, you can perform many types of analysis at "lightning speed." For example if you would like to analyze the complexity of programs and applications you can do this with *Function Points and McCabe Figures* that are calculated for each statement and displayable for each selection in the repository.

You can also retrieve how business processes are supported by the software. There is a variety of techniques available to do this in seconds. Techniques to understand your legacy applications and programs include:

CallGraph

- Shows in an interactive graphical representation the call hierarchy of all or selected parts of an application.

Resource Browser

- Shows all resources used in a program

Structure Browser

- Allows browsing through a program statement by statement.

CRUD Reports

(CREATE, READ, UPDATE and DELETE)

- Shows for each field in a table it is used and how.

Impact Analysis

- Shows developers the impact of a change to the entire IT system in less than a second; 100% comprehensive and correct,

Dataflow Analysis

- Shows the value chain through applications and programs forward, backward and both ways. This is the closest you can get to understand business logic.

Dataflow Analysis also makes transparent where in a program decisions regarding Dynamic Calls are made; i.e., which program name has to be moved into a Call Statements to call the next program.

SOA Migration Analysis

- In case a complex program has to be spilt into services (SOA) all boundaries of a selected part of a program can be recognized and shown in seconds.

Pivot Tables and Reports

- Can be generated to help understand complex, heterogeneous applications with a couple of mouse-clicks

You can achieve all of this with a **Software Quality Check** with **ITP-PANORAMA** and a 30 day trial.

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