How KeneteK helped its customer optimize its schedulers

About the customer

The customer that requested the support service for the Scheduler optimization:

- Is a subsidiary of an American multinational financial services corporation that operates in 24 countries, with over 55,000 employees.
- Is specialized in the intermediation, management and servicing of distressed and illiquid credit.
- Over 50 employees are entrusted to manage the proprietary IT environment.
- The IT architecture is spread from Mainframe to the distributed environment.
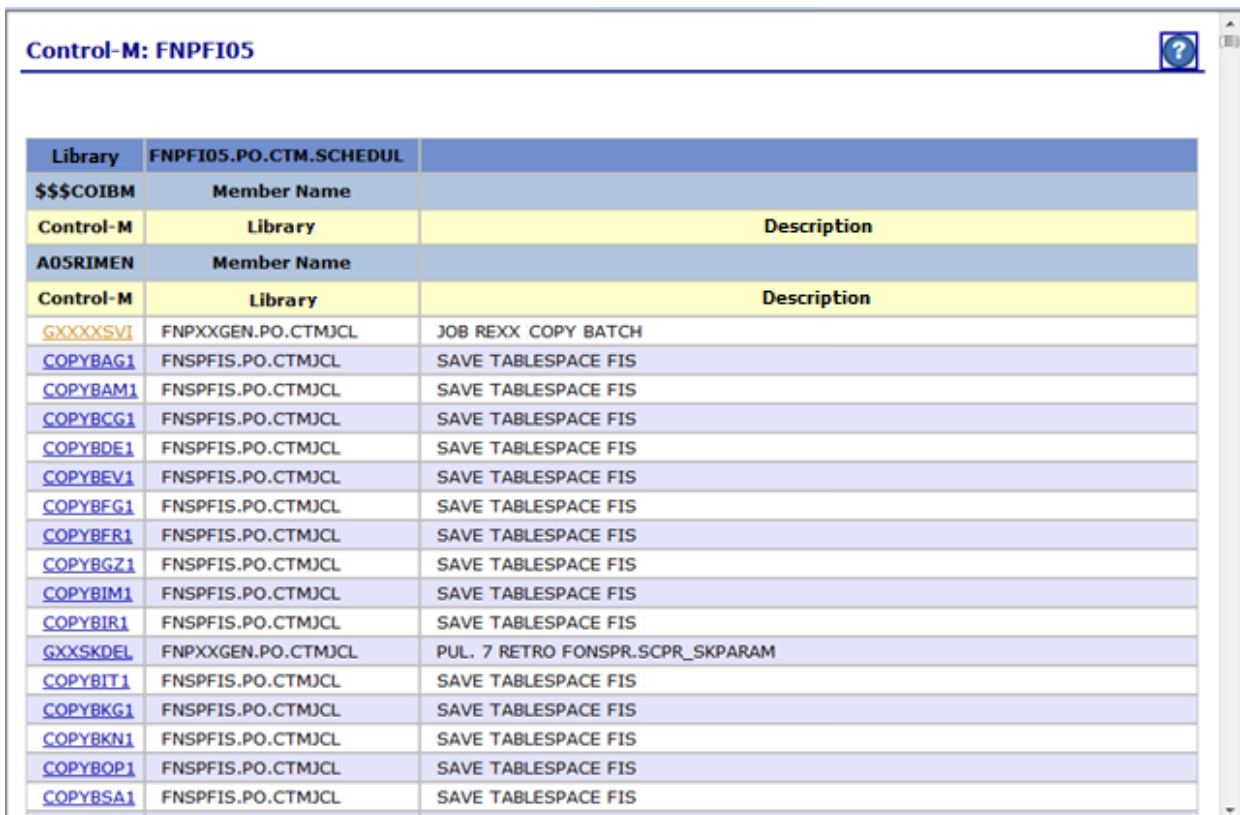
About KeneteK

KeneteK is a global company with a highly qualified profile whose mission is to support you to manage your Application in a changing environment and put your BUSINESS in a better position to predict and control the future.

In over twenty years KeneteK has developed its skills and expertise. Founded in 2011 KeneteK has begun giving its customers an exhaustive answer in the field of application and data analysis.

Since 2012 KeneteK has been PCI Participating Organization and showcases its products and services at the PCI Community Meetings all over the world since 2013.

The customer's problem

"We needed a turn-key solution that could help us manage our custom scheduler system "

Library	FNPFI05.PO.CTM.SCHEDUL	
$$$COIBM	**Member Name**	
Control-M	**Library**	**Description**
A05RIMEN	**Member Name**	
Control-M	**Library**	**Description**
GXXXXSVI	FNPXXGEN.PO.CTMJCL	JOB REXX COPY BATCH
COPYBAG1	FNSPFIS.PO.CTMJCL	SAVE TABLESPACE FIS
COPYBAM1	FNSPFIS.PO.CTMJCL	SAVE TABLESPACE FIS
COPYBCG1	FNSPFIS.PO.CTMJCL	SAVE TABLESPACE FIS
COPYBDE1	FNSPFIS.PO.CTMJCL	SAVE TABLESPACE FIS
COPYBEV1	FNSPFIS.PO.CTMJCL	SAVE TABLESPACE FIS
COPYBFG1	FNSPFIS.PO.CTMJCL	SAVE TABLESPACE FIS
COPYBFR1	FNSPFIS.PO.CTMJCL	SAVE TABLESPACE FIS
COPYBGZ1	FNSPFIS.PO.CTMJCL	SAVE TABLESPACE FIS
COPYBIM1	FNSPFIS.PO.CTMJCL	SAVE TABLESPACE FIS
COPYBIR1	FNSPFIS.PO.CTMJCL	SAVE TABLESPACE FIS
GXXSKDEL	FNPXXGEN.PO.CTMJCL	PUL. 7 RETRO FONSPR.SCPR_SKPARAM
COPYBIT1	FNSPFIS.PO.CTMJCL	SAVE TABLESPACE FIS
COPYBKG1	FNSPFIS.PO.CTMJCL	SAVE TABLESPACE FIS
COPYBKN1	FNSPFIS.PO.CTMJCL	SAVE TABLESPACE FIS
COPYBOP1	FNSPFIS.PO.CTMJCL	SAVE TABLESPACE FIS
COPYBSA1	FNSPFIS.PO.CTMJCL	SAVE TABLESPACE FIS

Dashboard that display the scheduler organize for each customer configuration

The dimensions of the problem

KeneteK, using KLR©, discovered:

- Over 15 applications with 9 million line of code scattered throughout the Mainframe and Distributed environment.
- Over 45,000 Control/M schedulers had to be updated when a new customer profile was added to the system.

The challenges

One of the main challenge that was faced was that the customer could not extract the Control/M source code. We had to analyze the print screens generated by a tool provide by the system operators.

The project has required the following steps:

1. Identify the relevant information displayed on the print screen and the unnecessary data like field descriptions.
2. Create a new grammar with the rules needed to acquire the print screens.
3. Update the parser engine to acquire the scheduler.

Possible solutions

With a *manual approach*[1] the user cannot understand how the scheduler has to be updated. No other potential solution, except the one offered by KeneteK, was found.

KeneteK's solution

KeneteK uses a holistic approach thanks to the tools that have been developed over the years. By performing a static analysis of the application source code and data the customer has the power to truly know what happens in their environment with the minimum effort on its side, the only phases where the customer's IT support is required are:

1. During the Control/M print screen extraction.
2. During the installation of the agent that updates the Control/M schedulers.

The produced data can be shared within the various actors involved in the analysis process, using a *centralized platform*[2] where people from different backgrounds can navigate through dashboards, metrics and reports and get the information they need to achieve their goal in the most efficient way possible,

Dashboard that display the Control/M relationship

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1. By manual approach we intend an approach where a team of highly qualified professionals interview system managers and manually go through the applications and business processes with them.
2. The centralized platform Is a win client (KLR.Net©) provided by KeneteK where the customer can, once authenticated, access the information uncovered during the analysis process using dashboards, reports, etc. All the dashboards and reports can be customized to customer requirements. All the information can be extracted (if authorized by a platform administrator) to standard formats (xls, pdf, etc.) to easily share using methods external to the platform itself.

About KLR©

KLR© (Knowledge Language Recognition) is the answer in the field of application analysis. Proposed as a holistic engine it is used to analyze the evolution of a complex system and its parts, and the relationship between each other.

The Results

Using KeneteK's approach the customer was able to identify over 45,000 schedulers and 23,000 JCLs in the different business process.

Thanks to this analysis the customer was able to precisely identify and optimize every business process, its JCLs, tables and files with and acquired the capability of knowing exactly which statements and I/O data was used in said process.

This resulted in a dramatic reduction of time and the related cost for the company while at the same time reducing the risks involved.