Analysetool CODEGRABBER

The way out of the labyrinth of code and applications

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Changing the Domino client / server

In a Domino infrastructure you must always answer the following question:

Do we have problems, if we make changes to the server / client, in sense of version or platform?

Besides the main application mail, calendaring and scheduling, there are several other applications on most of the installations (make or buy), which are high important and whose breakdown could lead to serious problems in the business cases.

Additionally and make it more difficult is the fact, that the administration does not absolutely know, how many different applications in the enterprise are being used and how complex their cooperating is.

Task

1. Migration of a 5.x server installation to a 6.5.x installation
   This may be simple to manage, since everything is downward compatible, especially the programming interfaces. However with R6 it can get a bit difficult, because some incompatibilities comes with that new version.

2. Conslidating of exisiting NT servers and usermove on another server platform (Solaris, AIX, …)
   Here you could have some UNIX caveats like no drive letters in absolute paths, no COM/OLE communication, missing ODBC driver managers and so on. Here you need the help of experienced programmers, which investigate first of all the code of your applications, before you start migrating.

3. Migrate of an application server to an application cluster (independent of the OS platform)
   This is a very critical system change and means a large expenditure regarding analysis and later changes of code. A code Review must be accomplished, whereby the special attention must be put on server-based (scheduled, triggered) Agents and failover safe instructions. Necessary adjustments of the individual applications can mean here larger syntactic and semantic changes of the source code.

The large difficulty of the tasks 2 and 3 is to accomplish an analysis, which points out, which application in which line of code could have problems. Each code (@Formulas, Lotus Script) must be verified and examined for appropriate errors.

One can accomplish this manually for example by a design synopsis and afterwards a text search in a text program, which however is laborious and errorpregnant, since the quantity of for functions to lookup is extensive.

Or one could use Tools of third party companies, who, accordingly configured, examine an application for incorrect functions and create a report, where possible weak points in the code are located.

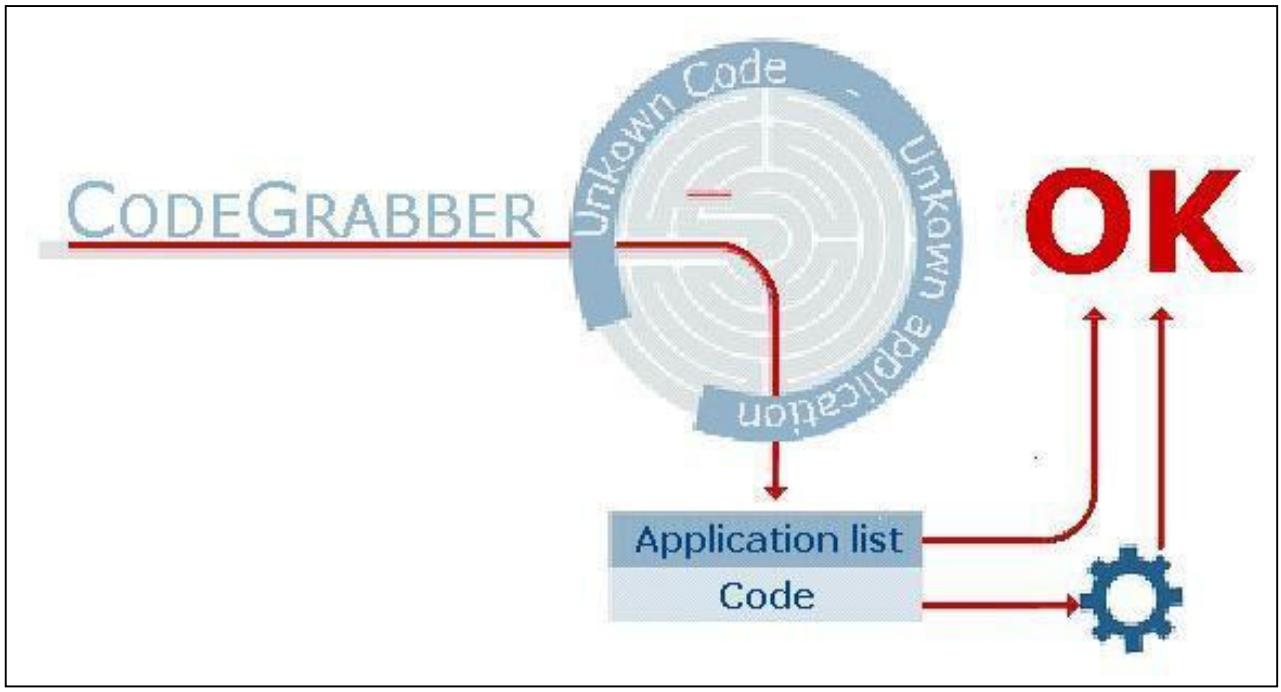
A short example points out the expenditure exemplary:

A company owns 100 applications, which have to be examined regarding to the planned use of a domino cluster.
You will roughly found the following expenditures

	standard (must not be true, but we assume that!)	1
60	teamroom and other Lotus templates. Estimated expenditure for an experienced developer	3
20	and 10 bought applications Analysis per application (depending on the complexity) approximatly 1 Tag	20
	Expenditure	**24**

This represents only a rough estimation, which can vary depending upon complexity of the application, but supplies a realistic time horizon.

Till now, you have not made any changes or only thoughts about you could do them, especially regarding server agents and Domino clusters



Features

CodeGrabber gives you the possibility, to scan whole Notes domains for applications and classifying them automatically for critical code sequences.

The classification was specified and defined by many years of experiences in the Domino programming. It shows on the first sight, how complex the used applications are and whether changes of the program logic become necessary.

So you are able to plan desired and necessary changes in the domino Client/Server (Clustering, platform and/or release change) without any problems, since they can be analyzed and eliminated before, if necessary.

All information is thus available for analysis, expenditure estimation as well as for the preparation of later code changes. There are appropriate methods for the administration available, in order to mark the individual applications as migrated and ready to use, add comments, etc.

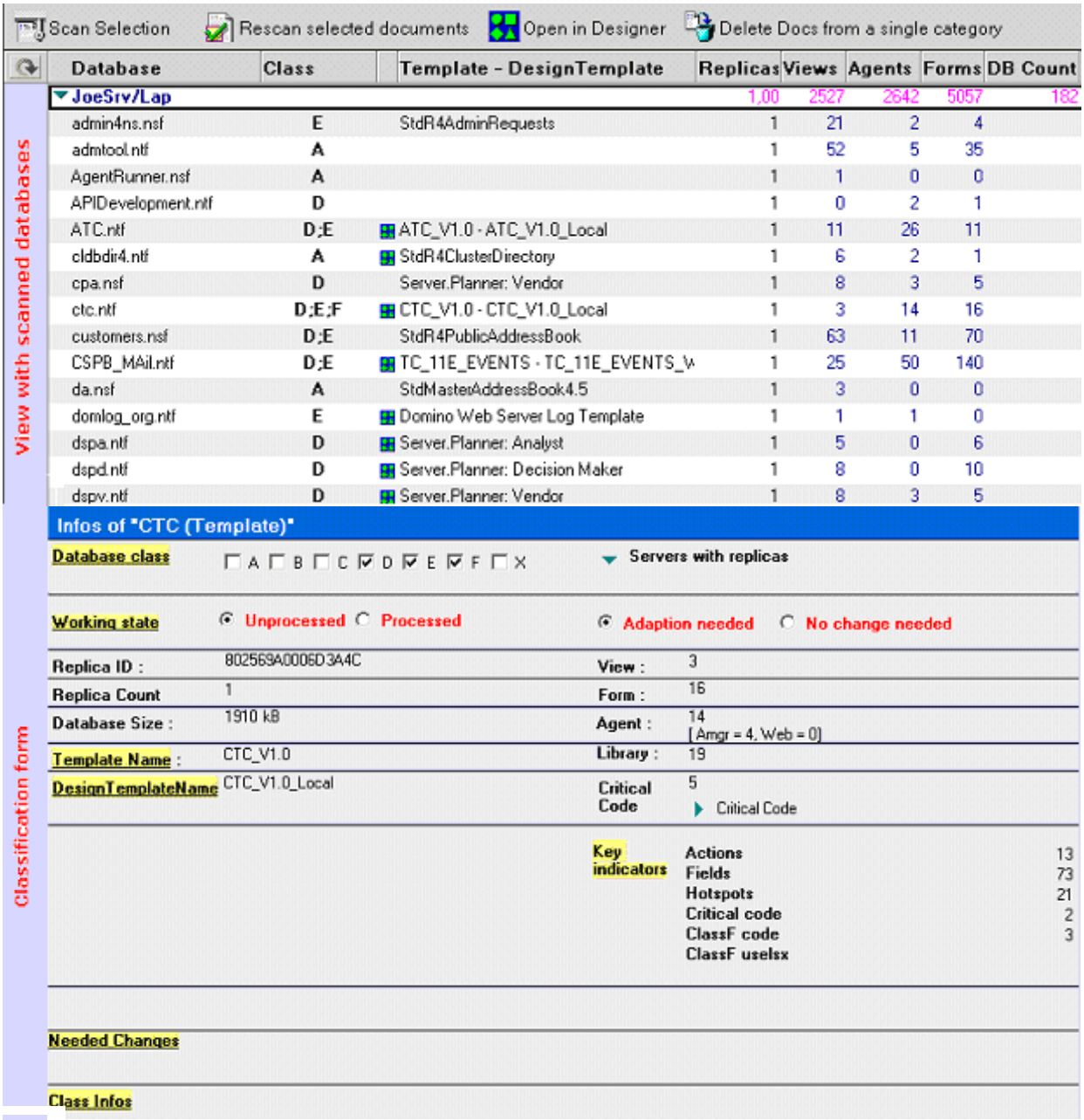
The amount of databases could be roughly limited with a dialog. You have the possibility to select a single server or a list of servers. This quantity can be further reduced by file patterns or other characteristics such as Design-Templates, View or form names.

The functions to look for, are deposited in the configuration and can be defined as Notes Regular expressions, whereby the syntax was extended, in order to be able to enter some special conditions.

Debugging and error logging could be adjusted in a fine and easy way. Special methods make a restart after an error situations (less memory during domain scan, ...) real simple.

The use of this tool saves you costs and time. If you take a look on the example above, the expenditure will be reduced to one day, untill you will have a report, whats going on in your domain or application server(s). Up to this time you don't need a highly-paid specialists, but only someone, which is familar with Notes and your domain. Only from now on you need a developer, which verifies the report and possibly gradates some applications into a less relevant class.

Therefore, you do not need an army of experienced developers, in order to inform about the complexity of your applications. Thus this tool can help you making the decision for using a Domino cluster for you applications (in a positive or negative way)



Codes

gents (AMgr)

ProcessNewMail

ASSISTTRIGGER_TYPE_SCHEDULED [More than once a day], Daily Execution = 00:00 - 24:00, overall excecution = - , Intervall = 5

ResetTransmitAllDocuments

ASSISTTRIGGER_TYPE_NEWMAIL

ritical code in Libraries

APIBaseLibrary

Declaration section

Declaration [DECLARE * LIB *] Declare Function W32_NSFDbOpen Lib "nnotes.dll" Alias "NSFDbOpen" _

Declaration [DECLARE * LIB *] Declare Function W32_MEMCPY Lib "crtdll.dll" Alias "memcpy" _

ClassF - Critical code in server agents

'ProcessNewMail' contains a critical code library 'APIBaseLibrary'

'ResetTransmitAllDocuments' contains a critical code library 'APIBaseLibrary'