# ABAP Development: abapOpenChecks - Open source checks SAP Code Inspector / ATC

### Posted by Lars Hvam Mar 8, 2015

Over the last 6 months I've been working on a set of custom checks for code inspector, the project is available on github.

Currently it contains the following general purpose checks, some complex and some simple.

CHECK\_01 - IF in IF

CHECK\_02 - EXIT outside of loop

CHECK\_03 - TRY without CATCH

CHECK\_04 - Line length

CHECK\_05 - 7 bit ASCII

CHECK\_06 - Check for use of pretty printer

CHECK\_07 - Functional writing style for CALL METHOD

CHECK\_08 - Obsolete statement

CHECK\_09 - Tab instead of spaces

CHECK\_10 - Use icon\_ constants

CHECK\_11 - Max one statement per line

CHECK\_12 - Specify SORT order

CHECK\_13 - Sequential blank lines

CHECK\_14 - Commented code

CHECK\_17 - Definitions in top of routine

CHECK\_18 - Empty branch

CHECK\_19 - Use LINE OF

CHECK\_20 - Bad indentation

CHECK 21 - Unused FORM parameter

CHECK\_22 - Conditions contain identical code

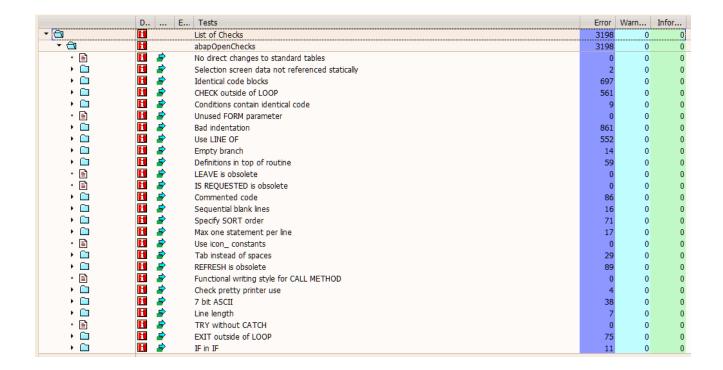
CHECK\_23 - CHECK outside of loop

CHECK\_24 - Identical code blocks

CHECK\_25 - Selection screen data not referenced statically

CHECK\_26 - No direct changes to standard tables

You can configure code inspector or ATC to use these checks in your default variant.



The checks are provided "AS IS", some might not fit your development requirement, and some might be slow or not even work.

This is a box of chocolates; take the ones you like . Some of the checks contains settings so it is possible to change to fit your requirements.

Feel free to submit pull requests or open issues. More checks will be added over time.

# https://github.com/larshp/abapOpenChecks

2790 Views Tags: abap, community\_projects, open\_source, code\_inspector, abap\_test\_cockpit, atc, github



Praveer Kumar Sen

Mar 26, 2015 11:20 AM

nice post Lars, really help full and contains lots of information to reduce extra works after code writing.

Happy Learning.

Praveer.

Lars Hvam in response to Peter Inotai on page 2

Mar 9, 2015 5:35 PM

One note on message priorities for abapOpenChecks, the "Management of" -> "Message Priorities" is not supported. Instead its possible to define the message priority in the check variant, this allows users to have different variants with different message priorities for the same check.



Peter Inotai in response to Lars Hvam on page 3

Mar 9, 2015 5:27 PM

You're right. Changing priorities is not supported for "Extended Program Check" (not even in 7.40 system). I

didn't notice it before.



Peter



Lars Hvam in response to Peter Inotal on page 4

Mar 9, 2015 5:15 PM

These 2 checks are part of "Extended Program Check" -> "Programming Guidelines".

There are some of the checks in "Programming Guidelines" that I personally don't like, whereas I like the CHECK / EXIT checks. Having these checks in abapOpenChecks allows for enabling and changing the message priority, as changes of message priorities for "Extended Program Check" is not supported(see note 1887255). I'll keep the note on the wiki page for the 2 checks so people can choose the approach they like.



Peter Inotai in response to Peter Inotai on page 4

Mar 9, 2015 3:03 PM

Found also an example for "EXIT statement outside a loop":

2	Extended Program Check	Exception handling is empty
2	Extended Program Check	EXIT statement outside a loop
2	Extended Program Check	EXIT statement outside a loop
2	Extended Program Check	EXIT statement outside a loop
2	Extended Program Check	EXIT statement outside a loop
2	Extended Program Check	Non-class-based exception used

### Details X

	Location / Finding			
Package	/EBY/PDBO_USER_MANAGEMENT			
Class Pool	/EBY/CL_PDBO_USER_SAP			
Method	/EBY/IF_OBJECT~EQUALS			
Line Number	7			
Check Title	Extended Program Check			
Check Message	EXIT statement outside a loop			
Priority	Priority 2			
Found on	09.03.2015 14:37:09			
Only use EXIT in loops. Otherwise use RETURN.				
Display Object	Exemptions allowed only for central results			



Peter Inotai in response to Lars Hvam on page 4

Mar 9, 2015 2:56 PM

Great, that was fast 🙂



Peter



Lars Hvam in response to Peter Inotal on page 4

Mar 9, 2015 12:58 PM

Thanks, I've added your information in the Wiki page for CHECK\_23, ZCL\_AOC\_CHECK\_23 · larshp/ abapOpenChecks Wiki · GitHub

I'll delete the code sometime in the future if it turns out its available on most SAP versions.



# Florian Henninger

Mar 9, 2015 11:24 AM

Nice one. I'll give it a shot in my testsystem and will report if there is something strange to me ~Florian





# Peter Inotai

Mar 9, 2015 9:55 AM

Hi Lars,

Thanks a lot for sharing these checks.

I believe in SAP BASIS 7.02 CHECK\_02 (EXIT outside of loop) and CHECK\_23 (CHECK outside of loop) are part of the standard checks:

Detail	S			
	Location / Finding	Description	Contact Person	
Package	/EBY/ICIV_MISC		READSOFT	
Class Pool	/EBY/CL_ICIV_TOOLS	Utilities	READSOFT	
Method	GET_SELOPT_GUID	Get GUIDs based on selection criterias	INOTAI	
Line Number	32			
Check Title	Extended Program Check			
Check Message	CHECK statement outside a loop			
Priority	Priority 3			
Found on	02.03.2015 15:08:29			
Only use CHECK in	loops or directly after the start of a procedure.			
Otherwise use RETI	JRN.			
Display Object	Exemptions allowed only for central results			

Anyway in lower releases it might not be there, so it makes sense to implement there.

## Peter



# Sergio Ferrari

Mar 9, 2015 9:22 AM

Thanks for sharing Lars. I'll try as soon as a new inspection project will come.

This is a great example of the value of our SCN.