

Dyalog User Commands 2.00 Release Notes

User Commands Version 2.00

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1 About This Document

This document describes the changes and new features in User Commands version 2.00 (released with the first release of Dyalog APL version 14.0) compared with User Commands version 1.29 (released with the first release of Dyalog APL version 13.2).

1.1 Compatibility with Dyalog Versions

The user command framework version 2.00 is compatible with all supported versions of Dyalog (that is, 13.1, 13.2 and 14.0), but requires SALT to be version 2.40 (this is the version that is shipped with Dyalog version 14.0).

If you are using Dyalog version 13.1 or 13.2, then the user command `]UUpdate` can be used to upgrade SALT and user commands. The default behaviour of `]UUpdate` is to update within the user command framework major release. However, as the user command framework version 2.00 is a major change involving the renaming of many user commands and other behavioural changes, you must specify the `-version=2` modifier to explicitly request an upgrade to the user command framework version 2.00 (this will also upgrade SALT to version 2.40); not including this modifier will limit the upgrade to the latest update prior to this major version change, that is user command framework version 1.34 and SALT version 2.39.

You need to be running with administrator rights for the above command to succeed.

2 Functional Changes

This chapter details the changes made to User Commands for version 2.00.

2.1 Caching

To reduce the start-up time of Dyalog Sessions, a cache file is created the first time that you start a Dyalog Session after installing/updating Dyalog – this can take a few seconds. This cache file comprises the name of each of the user commands and the file in which it is defined and is rebuilt if any of the files that contain user commands are altered.

2.2 User Command Names and Groups

NOTE: The names of groups, as well as the names of the user commands that populate each group, have changed significantly in this release with the intention of making the groupings more intuitive for the user (see Section 2.4.1).

The names of user commands no longer have to be unique across all user commands as long as they are unique within a group. When running (or asking for help on) a user command, the group name can be prefixed to the user command name, separated by a `.` character; this group name prefix is mandatory if the user command name is not unique across all groups.

Every user command must be in a group, and every group must comprise at least one user command.

2.3 Running User Commands: Names

Prior to this release, the name of a user command did not need to be entered in full when running it – as long as enough of the name was entered for it to be interpreted unambiguously. This is no longer the case, and running a user command requires its name to be entered fully.



New auto-complete functionality means that any user commands that match the entered string are presented as selectable options, making it easy to correctly specify the requisite user command.

Partial unambiguous user command names can still be used when requesting help.

2.4 Summary of Syntax Changes

2.4.1 Renamed Groups and User Commands

Some groups and user commands have been renamed to better describe their purpose. These are detailed in Table 1.

Table 1. Changes to User Commands Groups and Names

Old Group	Old User Command	New User Command	New Group
SAMPLES	HelpExample	UCMDHelp	<i>no change</i>
	sampleA	UCMDNoParsing	<i>no change</i>
	sampleB	UCMDParsing	<i>no change</i>
SPICE	UClean	Clean	SALT
	UDebug	<i>no change</i>	UCMD
	ULoad	<i>no change</i>	UCMD
	UMonitor	<i>no change</i>	UCMD
	UNew	<i>no change</i>	UCMD
	URefresh	<i>no change</i>	UCMD
	UReset	<i>no change</i>	UCMD
	USetup	<i>no change</i>	UCMD
	UUpdate	<i>no change</i>	UCMD
UVersion	<i>no change</i>	UCMD	
SVN	svnadd	Add	SVN
	svnci	Commit	SVN
	svnco	CheckOut	SVN
	svndelete	Delete	SVN
	svndiff	Diff	SVN
	svnexport	Export	SVN
	svnimport	Import	SVN
	svnresolve	Resolve	SVN
	svnstatus	Status	SVN
svnupdate	Update	SVN	
SYSMON	CPUtime	RunTime	PERFORMANCE
	Monitor	<i>no change</i>	PERFORMANCE
	profile	Profile	PERFORMANCE
SYSTEM	assemblies	Assemblies	TOOLS
	cd	<i>no change</i>	FILE
	EFA	fileAssociations	TOOLS
TOOLS	aedit	Edit	ARRAY
	calendar	<i>no change</i>	MISC
	collect	<i>no change</i>	FILE
	dinput	<i>no change</i>	FN
	disp	<i>no change</i>	OUTPUT
	display	<i>no change</i>	OUTPUT
	factorsof	Factors	MISC
	Ffind	Find	FILE
	FnCalls	Calls	FN
	FReplace	Replace	FILE
	fromHex	<i>no change</i>	TOOLS
	Fto64	ToLarge	FILE
	ftttots	ToQuadTS	FILE
	latest	<i>no change</i>	FN
splitfile	Split	FILE	

	Summary	<i>no change</i>	NS
	toHex	<i>no change</i>	TOOLS
	tohtml	ToHtml	ARRAY
	wsdoc	Document	WS
	wspeek	Peek	WS
	Xref	<i>no change</i>	NS
WSUTILS	cfcompare	Compare	FILE
	commentAlign	Align	FN
	defs	<i>no change</i>	FN
	findrefs	<i>no change</i>	WS
	fncompare	Compare	FN
	fnsLike	<i>no change</i>	WS
	namesLike	<i>no change</i>	WS
	reordLocals	ReorderLocals	FN
	sizeof	<i>no change</i>	WS
	supdate	ScriptUpdate	NS
	varcompare	Compare	ARRAY
	varsLike	<i>no change</i>	WS
	wcompare	Compare	WS
	wslocate	Locate	WS

2.4.2 New User Commands

Some new user commands have been added. These are detailed in Table 2.

Table 2. New User Commands

Group	New User Command	Description
FILE	Edit	Edits a native file using the APL editor.
FILE	Touch	Checks whether the specified file exists in the current/specified location and creates it if it cannot be found.
MISC	PivotTable	Provides standard pivot table functionality.
OUTPUT	Box	Identical to OUTPUT.Boxing (see below)
OUTPUT	Boxing	Changes the default display of arrays, functions and operators in the Session.
OUTPUT	Rows	Impacts the display of any array that is subsequently entered into the Session by limiting the number of rows that are output.
PERFORMANCE	SpaceNeeded	Returns the space (in bytes) required to execute the specified expressions.
TOOLS	Chart	Opens the Chart Wizard and SharpPlot Chart Viewer to display the specified expression.

WS	Map	Displays the structure of the specified namespace (or the current namespace if none is specified) in terms of its constituent variables, functions and operators.
WS	Nms	Identical to <code>WS.NamesLike</code> except without have the <code>-noclass</code> modifier. Added to match IBM's APL2 system command <code>)NMS</code> .

2.4.3 Deleted User Commands

Superfluous user commands have been deleted. These are detailed in Table 3.

Table 3. Deleted User Commands

Group	Deleted User Command
SALT	Rebuild
SYSMON	APLMON
TRANSFER	inx
TRANSFER	outx
WSUTILS	FnDiff

2.5 Summary of Modifier Changes

2.5.1 Renamed User Command Modifiers

Some user command modifiers have been renamed to better describe their purpose. These are detailed in Table 4.

Table 4. Renamed User Command Modifiers

Old Group/User Command Name	New Group/User Command Name	Old Modifier Name	New Modifier Name
SALT/Compare	SALT/Compare	-use	-using
SALT/Compare	SALT/Compare	-zone	-window
WSUTILS/CFCompare	FILE/Compare	-zone	-window
WSUTILS/FNCompare	FN/Compare	-zone	-window
WSUTILS/VarCompare	ARRAY/Compare	-zone	-window
WSUTILS/WSCompare	WS/Compare	-zone	-window

2.5.2 Changed User Command Modifiers

Some user command modifiers have been changed, for example, additional modifier values allowed. These are detailed in Table 5.

Table 5. Changed User Command Modifiers

Old Group/User Command Name	New Group/User Command Name	Change
TOOLS/FReplacE	FILE/ReplacE	-opt ions modifier no longer accepts values of M (multi-line mode) or S (single line mode) as value. I (case insensitive) is still accepted, and can now be in upper or lower case (that is, I or i).

2.5.3 New User Command Modifiers

New modifiers have been added to some user commands to enhance their functionality. These are detailed in Table 6.

Table 6. New User Command Modifiers

Old Group/User Command Name	New Group/User Command Name	New Modifier
SPICE/UClean	SALT/Clean	-deletefiles
SPICE/UMonitor	UCMD/UMonitor	-report
TOOLS/Demo	TOOLS/Demo	-tty
TOOLS/Demo	TOOLS/Demo	-ppt
TOOLS/Latest	FN/Latest	-by
WSUTILS/WSLocate	WS/Locate	-execute

2.5.4 Deleted User Command Modifiers

Superfluous user command modifiers have been deleted. These are detailed in Table 7.

Table 7. Deleted User Command Modifiers

Old Group/User Command Name	New Group/User Command Name	Deleted Modifier
SALT/Snap	SALT/Snap	-nstofolder
SALT/Snap	SALT/Snap	-vars