

User Commands Release Notes

User Commands Version 2.5

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1 About This Document

This document describes the changes and new features in user commands version 2.5 (released with the first release of Dyalog version 18.2) compared with user commands version 2.4 (released with the first release of Dyalog version 18.0).

1.1 Compatibility with Dyalog Versions

The user command framework version 2.5 is compatible with Dyalog version 18.2 only.

2 Functional Changes

This chapter details the changes made to pre-defined user commands for version 2.5 of the user command framework.

For information on specific user commands, enter `]<cmd> -?` in a Session; this returns brief information (including appropriate syntax) for the specified user command.

2.1 General Changes

2.1.1 Alignment of Display Commands

Several user commands in the `]OUTPUT` group influence different aspects of how things are displayed in a Session. The individual changes necessary to remove these inconsistencies are detailed in the relevant sections of this document; the resultant situation is as follows and applies to `]OUTPUT.Box`, `]OUTPUT.Boxing`, `]OUTPUT.Find` and `]OUTPUT.Rows`:

- The argument is optional and can be one of `on|off|reset|?` where:
 - `on` : activates the user command
 - `off` : disables the user command
 - `reset` : reverts all modifier settings to their original (default) values
 - `?` : returns the current `on|off` state and all modifier settings
 Omitting the argument returns the `on|off` state of the user command.
- Using a modifier without supplying an argument does not activate the user command – it remains in the state that it was in until explicitly changed.
- Modifiers that take `on|off` values (`-fns`, `-includequadoutput`, `-stop`, `-timestamp`) can be a switch (no modifier value) can be used without a value (this defaults to `on`).

2.2 Changes – Groups

2.2.1 Changed Groups

Some user commands have been moved into different groups. These are detailed in Table 1.

Table 1. Changed Groups

Old GROUP.Command Name	New GROUP.Command Name
EXPERIMENTAL.Config	TOOLS.Config

2.3 Changes – User Commands

2.3.1 New User Commands

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

Table 2. New User Commands

Group	User	Description
EXPERIMENTAL	Get	Fetch data/code in many formats from local or remote sources.
OUTPUT	Repr	Represent given value as an APL expression or as APLAN/JS/JSON/XML/CSV/SSV/PSV/TSV.
OUTPUT	View	Evaluate and view the given expression in a read-only Edit window.
TOOLS	APLCart	Access a searchable collection of over 3,000 short APL phrases.
WS	Names	List names in namespace(s)/of specified nameclass(es).

2.3.2 Renamed User Commands

One user command has been renamed. This is detailed in Table 3.

Table 3. Renamed User Commands

Group	Old Command Name	New Command Name
LINK	List	Status

2.3.3 Changed User Commands

Some user commands have been changed. These are detailed in Table 4.

Table 4. Changed User Commands

Group	User Command	Change
MSWIN	FileAssociations	<p>This user command has been expanded to support new file associations, allow associations for the current user to be set without requiring administrator rights, take back-ups of the registry before making changes, and display a preview of changes before applying them.</p> <p>The argument can now be one of:</p> <ul style="list-style-type: none"> • "" : use a GUI to select settings (limited functionality) • <instance> : associate with <instance> (version, edition, bit-width; default edition and bit-width: Unicode and 64) or "current" (to associate with the instance that the user command is being run within), and reset actions to default values • "status" : summary of current associations and default actions • "details" : full report of current associations and default actions • "remove" : remove all current associations • "backup" : export current associations to .reg file <p>The new modifiers required for the enhanced functionality are detailed in Table 5.</p>
OUTPUT	Find	<p>The argument is now optional and a new argument value (r e s e t) has been added to reapply the original modifier settings:</p> <pre>-style=min -trains=box -fns=off</pre> <p>If the argument is omitted then the current on off state and modifier settings are returned. Specifying modifiers no longer implies that the argument is on.</p>
OUTPUT	HTML	<p>URLs are now detected and the corresponding website rendered rather than rendering the URL.</p>

Table 4. Changed User Commands (continued)

Group	User Command	Change
OUTPUT	Rows	<p>The argument is now optional and a new argument value (<code>reset</code>) has been added to reapply the original modifier settings:</p> <pre>-style=long -fold=off -fns=off -dots=.</pre> <p>If the argument is omitted then the current <code>on off</code> state and modifier settings are returned. Specifying modifiers no longer implies that the argument is <code>on</code>.</p>

2.4 Changes – Modifiers

2.4.1 New Modifiers

New modifiers have been added to some user commands to enhance their functionality. These are detailed in Table 5.

Table 5. New User Command Modifiers

Group	User Command	New Modifier	Description of Modifier
LINK	Break	<code>-recursive=</code>	Specifies behaviour for links between descendants of the specified namespace and their own directories.
LINK	Create	<code>-arrays=</code>	Enables the export of arrays (ignored). Only valid when <code>-source</code> is <code>ns</code> (otherwise ignored).
LINK	Create	<code>-fastload</code>	Reduces the load time by not inspecting source to detect name clashes.
LINK	Create	<code>-sysvars</code>	Enables the export of namespace-scoped system variables. Only valid when <code>-source</code> is <code>ns</code> (otherwise ignored).
LINK	Export	<code>-arrays=</code>	Enables the export of arrays.
LINK	Export	<code>-sysvars</code>	Enables the export of namespace-scoped system variables.

Table 5. New User Command Modifiers (continued)

Group	User Command	New Modifier	Description of Modifier
LINK	Export	-overwrite	Allows files in the destination directory to be overwritten.
LINK	Import	-overwrite	Allows items in the destination namespace to be overwritten.
MSWIN	FileAssociations	-config=	Sets the default action for configuration (.dcfg) files.
MSWIN	FileAssociations	-confirm	Displays proposed changes and asks for confirmation before applying them.
MSWIN	FileAssociations	-dir=	Toggles the display of actions for directories.
MSWIN	FileAssociations	-dyapp=	Sets the default action for (deprecated) .dyapp files.
MSWIN	FileAssociations	-nobackup	Does not create a back-up file before applying changes.
MSWIN	FileAssociations	-preview	Displays proposed changes but does not apply them.
MSWIN	FileAssociations	-script=	Sets the default action for script files (.apls).
MSWIN	FileAssociations	-source=	Sets the default action for source files (.apl* except .apls).
MSWIN	FileAssociations	-user=	Specifies whether to work on HKEY_CURRENT_USER or HKEY_LOCAL_MACHINE.
MSWIN	FileAssociations	-workspace=	Sets the default action for workspaces.
OUTPUT	Box	-view=	Similar to -style= within the Session but determines the level of detail shown when using]OUTPUT.View
OUTPUT	Boxing	-view=	Similar to -style= within the Session but determines the level of detail shown when using]OUTPUT.View

Table 5. New User Command Modifiers (continued)

Group	User Command	New Modifier	Description of Modifier
OUTPUT	Find	-stop=	Suspends execution on the next line that would output to the screen (code can then be stepped through).
OUTPUT	Find	-timestamp=	Appends a timestamp to the message that is returned when output is detected.
OUTPUT	HTML	-raw	Treats the user command's argument as a literal string rather than an expression.
TOOLS	Demo	-quiet	Suppresses menu items and status message so things look "real" (good for webcasts).
TOOLS	Help	-page=	Specifies the level of help to return (the number corresponds to the number of question marks when requesting help for user commands). The following user commands are equivalent:]Box -???]Help]Box -page=3]Help -page=3]Box
TRANSFER	In	-outdir=	Uses]LINK.Export to write imported items to file rather than importing them to the current workspace.

2.4.2 Changed Modifiers: New Values

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

Table 6. New User Command Modifier Values

Group	User Command	Modifier	New Modifier	Description of Modifier
LINK	Create	-source	auto	Determines which of the namespace and directory has content to be the definitive source. The new default for this modifier.

Table 6. New User Command Modifier Values (continued)

Group	User Command	Modifier	New Modifier	Description of Modifier
OUTPUT	Boxing	-style	non	Retains the standard non-boxed display of arrays while still enabling other enhanced display features such as showing function definitions and normalising line breaks.
OUTPUT	Find	-include quadoutput	on off <null>	This former switch can now take on off values; not specifying a value defaults to on.

2.4.1 Changed Modifiers: Changed Values

Some modifiers have changed modifier values. These are detailed in Table 7.

Table 7. Changed User Command Modifiers

Group	User Command	Modifier	Description of Modifier Value Changes
OUTPUT	Box	-fns	The mandatory specification of on off is now optional; not specifying a value defaults to on.
OUTPUT	Boxing	-fns	The mandatory specification of on off is now optional; not specifying a value defaults to on.
OUTPUT	Rows	-fns	The mandatory specification of on off is now optional; not specifying a value defaults to on.
OUTPUT	Rows	-fold	The mandatory value specification is now optional; not specifying a value defaults to 3.

2.4.2 Changed Modifiers: Deleted Values

One superfluous modifier has been deleted. This is detailed in Table 8.

Table 8. Deleted User Command Modifiers

Group	User Command	Modifier	Deleted Modifier Value
LINK	Create	-source	both