# ut\_console

## User Manual

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Usino scriotoroperties.html locallu (and some additions)	

## Introduction

This Mod is aimed at Mod Developers to Test functionality and confirm values that usually need a Script change or a dedicated script to get. Additionally it might turn out to also be a useful Cheat Mod, but that is not the primary goal, so be careful when used as such. This Mod is versatile and powerful, and can mess up many things in a Savegame.

## **Expression Syntax Explaination**

Expressions in this Console are used as Input for most Commands, and are very similar to the Expressions in the Scripting Languages (aiscript and md) since they are based on them, though there are some differences and pelicularities which will be pointed out.

Basically it is a Chain of Properties seperated by dots (.), starting with a Root property and with each step you get a certain property of the previous result.

Additionally some commands might take their own "Root Properties" to differ between diffrent types of input values. This has nothing to do with the property chain though, it is just to differ between possible input values. They might start with a property chain from the second step onwards if applicable, but often just take a single value here.

#### **Object References**

Objects can be referenced with many methods. This can happen at the start of a property chain, or even in the middle of it if it makes sense in context. Possible ways to reference Objects are:

ABC-123 Its idcode. Note that i consider the idcode non-unique, but its easy to use. Will always use the first

match, but additionally output an error to the Console if other matches are found.

0x1234 (hex id) Its Object identifier, that is unique within a game session. Note that its not persistent over sessions.

12345 (decimal id) (might change when loading a game) Can be entered in any supported numeric form.

\$console\_var If you set a console Var before you can use it as Object reference if it contains an Object.

ptarget player target

gtarget guidance target

atarget player autopilot target

pcontainer player container (ship or station)

pobject

htargets Holomap Targets (Not yet used by any command)

mapobjects Holomap Visible Objects (Not yet used by any command)

### **Root Properties**

The following Start Properties are available:

Object references see above for explaination

\$console\_var If you set a console Var before you can access it as root property

null simply a null if you need it

True actually numeric 1 false numeric 0 in this case

component.<a href="mailto:component/object">component/object</a> referenced by the following numeric identifier. Use this if the autodetect fails,

object.<number> or if you want to start an expression chain with such an object (no autodetect here)

gameparam.<br/>oparam> Reading from the game params (Startup params?) - not sure yet what this is..

param.cgroupname>.<parameters.xml</pre>

macro.<macroid> getting a macro via its id as starting point

md.<scriptname>.cuename> getting an MD cue via its Script and Cuename. Can be used further for remote var reading

mdvar.\$varname getting an MD var via its name. Equal function to md.\$varname in the game scripts.

global.\$varname getting a global var by its name faction.<a href="faction.4actionname">faction.4actionname</a> getting a faction by its name

tag.<a href="tag:dagname">tag.<a href="tag.dagname">tag.dagname</a href="tag:dagname">tag.dagname</a href="tag.dagname">tag.dagname</a href="tag.dagname">ta

ware.<warename> getting a ware by its name

R.number> getting the result of a previous expression in the same command (as in Repeat X; mus be supported

by each command)

Following here are more root properties, but i consider them less useful for use in this Console, so i will save myself the explaination. Also they are largely untested and might not work.

position. <x>.<y>.<z></z></y></x>	vector. <x>.<y>.<z></z></y></x>	rotation. <yaw>.<pitch>.<roll></roll></pitch></yaw>	readtext. <pageid>.tid&gt;</pageid>
stat. <statname></statname>	userdata. <userdataentry></userdataentry>	userdatasigned. <userdataentry></userdataentry>	terraforming. <entries< td=""></entries<>
lookup. <category></category>	assignment. <assignment></assignment>	controlpost. <controlpost></controlpost>	entityrole. <entityrole></entityrole>
entitytype. <entitytype></entitytype>	notification. <type></type>	race. <race></race>	unlock. <type></type>
warebasket. <id></id>	waregroup. <id></id>	attention. <level></level>	relationchangereason. <reason></reason>
killmethod. <method></method>	unitcategory. <category></category>	deployablecategory. <category></category>	command. <command/>
commandaction. <action></action>	activity. <activity></activity>	skilltype. <skill></skill>	controlposition. <position></position>
formationshape. <shape></shape>	level. <level></level>	alertlevel. <level></level>	roompopulationtype. <type></type>
purpose. <purpose></purpose>	controlpaneltype. <type></type>	signalleaktype. <type></type>	boardingbehaviour. <behaviour></behaviour>
boardingphase. <phase></phase>	blacklisttype. <type></type>	blacklistgroup. <group></group>	waretransport. <waretransport></waretransport>
orderstate. <state></state>	moodlevel. <level></level>	weaponmode. <mode></mode>	dronemode. <mode></mode>
dockstate. <state></state>	shiptype. <type></type>	stationtype. <type></type>	roomtype. <type></type>
regiongroup. <group></group>	flightbehaviour. <behaviour></behaviour>	flightcontrolmodel. <flightcontrolmodel></flightcontrolmodel>	objective. <objective></objective>
missiontype. <type></type>	missiongroup. <group></group>	cuestate. <group></group>	quota. <quota></quota>

## Standard Properties

The following properties can be evaluated on each step. These here are entirely based on what is available in the scriptproperties.html but especially the Properties with Pseudo Data Types/using two steps at once are often not yet implemented. Please refer to said the scriptproperties.html to know what is available for a certain data type/at a certain point in the chain and also what each property is. The Order chosen in this rundown schould mostly match the order of an *unsorted* scriptproperties.html (because this groups related properties nicely)

exists	isoperational	iswreck	isconstruction	issurfaceelement	canbeattacked	extension
isextensionpersona		realclass	state	macro	grouptag	parent
container .	controllable	defensibleobject	ship	station	cluster	sector
zone	room	module	canbelivestreamed	isinternallystored	generationseed	seed
name	rawname	knownname	hasbeenrenamed	debugname	position	rotation
velocity	speed	relvelocity	relspeed	attention	size	length
height	width	owner	coverowner	trueowner	isplayerowned	isownerless
isknown isrelation	changedisabled	wares	revealedpercentage	: scannedlevel	gravidarfactor	secrecylevel
isactive	isphysicsready	canbedismantled	isfunctiona	ishackabl	isindestructible	ishacked
ishullunrepairable	isrepairable	isinvulnerable	isshieldunrepairable	ismodular	hull	maxhull
hullpercentage	shield	maxshield	shieldpercentage	drop	canclaimownership	hasstorage
modulesets	makerraces	primarypurpose	ismilitary	threatscore	lastattacker	lastattacktime
isinliveview	currentradarrange	maxradarrange	formationleader	currentformationwin	gmen	idcode
isformationleader	isformationwingman	iscommandeerable	iscommandeered	isgodobject	isgodobjectentry	godentry
isgodshipentry	isgodstationentry	isgodproductionentr	y isgamesta	ertgodentry	isrespawnablegodo	bject
godentryname	godentrytags	ismasstraffic	ishighwaytraffic	istemptraffic	iszonechangepend	ing
numwaypoints	region	ismission	missioncue	suspicious	isradarvisible	
canbepickedup	canbetowed	tugship	throttle	value	buildresourcevalue	
numsignalleakslots		isonlineobject	isvisitor isvisitormi	ssionobject	venture	venturename
•	t masstrafficendobjec	-	haspaintmod	isunit	isdeployable	unitcategory
deployablecategory	•	formationradius	isformationrolling	isformationrollmemb		maxshipsperline
isinhazardousregio	_	ableposition	accesslicence	accessrestricted	canberecycled	
dismantlingobject	salvageclaimants	isdatavault	islandmark 	isfriendfoe	friendlist	foelist
target	isarmed 	safetydistance 	pilot	assignedpilot	aipilot 	assignedaipilot 
defencenpc 	tradenpc	tradecomputer	engineer	shiptrader	shadyguy	roleentities
isnpcassignmentres		order .	nextorder	defaultorder	orders	buildorders
tradeorders	hasorderloop · ·	commander	toplevelcommander	-	commanderentity	
activesubordinateg	•	subordinates	subordinategroupdo		subordinategroupid	
subordinategroupp		subordinategrouppr	•	subordinategroupre		
subordinategroupre		subordinategroupat	<del>-</del>	allsubordinates	allcommanders	controlroom combinedskill
haswalkableroom	canhavedynamicint	21101	hasscanner	longrange	maxscanlevel	COMONICOSKIII
	-	beardineeeerations	beardingbobavious	allmasinocelicoatebo	el boardinor	
iscapturable	boardingoperation <sup>2</sup>		boardingbehaviour	•	-	resistance
iscapturable baseboardingresist	boardingoperation ance	boardingstrength	constructionsequen	ce defenced	Ironemode	resistance loadoutlevel
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dockarea	walkablemodule	dynamicinterior	freemissionactorslot	slotcontext	assignedship	pier
docked	external	isstorage	isdockingallowed	isunitdockingallowe	d isundocki	ngallowed
isunitundockingallo	wed	todockpos	launchpos	dockstate	isbuildingallowed	istradingallowed
isplayeronly	isventureronly	ventureplatform	hasentrypos	entrypos	hasexitpos	exitpos
economy	security	sunlight	god	jobs isexclusiv	reforextensionjobs	factionlogic
locationtags	alllocationtags	yieldthresholds	representatives	isnormalcluster	ispresentation	systemid
	distancetolockbox	averagemaxyield	iscontested	contestingfactions	hasgravidarobscurir	ngregion
hashazardousregi	on containst	hewave waveprot	ectionresources	policefaction	typicallockboxmacro	coreposition
coresize	adjacentzones	haspriority	istempzone	isnormalzone	islocalhighway	issuperhighway
isdisabled	origin	junctions	entryjumpgate	exitjumpgate	closestpointtoplayer	
controlpost	role	roleobject	titleoverride	iconoverride	occupationname	icon
race	bade	isfemale	isavatar	iscommable	ismissionactor	
isremotecommable	iscontrolentity	isintransit	istransferscheduled	· -	ishidden	podarrivaltime
roomslot	floortags	iswalking	slowwalkspeed	walkspeed	runspeed	isspeaking
isinspeakrange	lastspeaktime		neededexperience	controlled	assignedcontrolled	spacesuit
spacesuitmacro	inventory	stock .	shouldinformplayer	shouldwarnplayer	istradecomputer 	isshadyguy
isindependent	tradesvisible 	facecutscene	npctemplate	targetslot	currentchair 	hasclothingmod
hastool	isinconversation	isreadytofire	mode	isrepairing	ismining	iscombat
barrelposition	component	tags	aronb	offset	staticoffset	staticrotation
controlposition 	available	buyer	seller	isbuyoffer	isselloffer	isoffer
isorder	wate	amount "	desiredamount · ·	offeramountt	transferredamount	minamoun 
destroyedamount	volume	offervolume 	minvolume	price	unitprice	minprice
relativeprice	quantityfactor	hasdynamicprice	stocklevel	bundle 	tradeoffer	buyfree 
sellfree	iswareexchange	isshiptoship	iscrewexchange	isbuyerpassive ,	issellerpassive	iscancelled · · ·
isshipbuild	isrecycleshipbuild	isexpansion	isupgrade 	issoftwareonlyupgra		isrestock
isshipmodification	isprocessing	buildobject	construction	faction	time	consumables
boardee 	attackers · · · ·	approachingpods	boardingphase · " ' '	boardingapproachth	_	nsertionthreshold
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id 	script 	canplayercancel	isinfinite '	isinloop	isoverride 	isrunning
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headquarters isammo	iscardo oosalsaahhid	iscrafting	isvolatile	isgift	iztat6	isdropallowed
isresearchable	illegal	objectmacro	objectcount	ssoftware	isweaponmod	isenginemod
isshieldmod	isshipmod	isequipmentmod	equipmentmodqualit		ispaintmod	paintmodquality
isclothingmod	clothingmodguality	isprocessed	table	tree	capacity	bnibosewacio
purposename	docksizes	•	consumptionvolume		allowedowners	allowedwares
maxrelation	enemy	active	version	static	staticbase	namespace
library	isinstance	hasmissionoffer	hasmission	hasquidance	offerlocations	missiontype
missionendtime	objective	objectiveendtime	actor	isnumeric	isstring	femalename
pluralname	tag	hirable	tiers	skilltypes	maxmk	age
occupiedship	platform	entity	galaxy	computer	activity	autopilottarget
conversation	conversationactor	hasactivemission	activemissiontype	activemissionwaypo	_	tedonlinemission
isincontrolposition	scanlevel	debug	isscreenshotmode	screenshotmode	ismapeditoractive	
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moduledescription		flightassist	isdockuiactive		isemergencyejectac	
shouldplayertaxiw		shouldplayershipsw	aitforplauer	isonline	canactivateliveview	
recommendedmodi		isgameover	index	element	key	null
integer	largeint	float	angle	hitpoints	largefloat	cne
keyword	xmlkeyword	componentstate	killmethod	relationchangereaso	_	flightbehaviour
flightcontrolmodel	entitytype	entityrole	skilltype	missiongroup	level	alertlevel
command	commandaction	roompopulationtype	<del>-</del> -	controlpaneltype	signalleaktype	blacklisttype
blacklistgroup	moodlevel	orderstate	 datatype	cuestate	notification .	string
componentslot	licence	vector	quadrant	unlock	weaponmode	dronemode
shiptype	stationtype	roomtype	regiongroup	none	down	left
front	back	param	param2	param3		

#### Special Properties

These Properties are not part of the original Property Chain Syntax, but they emulate other functions of the Scripting Language that might be useful. Namely Type conversions and such stuff.

\$variable I

=> if the current result is a a Cue, Entity or Table wit will read a Variable off them (Cue Variable, Entity Blackboard Var, Table Value from a Key) - baiscally the same syntax as with global.\$variable or mdvar.\$variable

<number>

=> If the current result is a Group, List or Table it will result in the numeric nth Entry of it (1-based). In case of Tables it obviously needs to have the respective numeric key

(Note: For tables other Keys than Numeric or String are not supported properly yet; planned is a workaround-y way of using Console Vars, but details have to be ironed out yet)

rl troy rb rc Internal Call: \$currentStep.(\$nextStep)

-> as in 'readlist','readtable','readgroup','readblackboard' or 'readcue' enforces the previous behavior in case it doesnt work automatically, with the next Value in the Chain being the Var/Key Name

comp Internal call: \$CurrentStep == \$NextStep

=> compare hack (temporary); compares the current result of the Chain with the next single Step

(useful for eg chekcing against an object reference); makes the result boolean.

cv:i => convert to integer Internal call: (\$CurrentStep)i

cv:f => convert to float Internal call: (\$CurrentStep)f

cv:component | Internal call: component.(\$CurrentStep)

=> convert to component – turns a number into an object if possible. This should usually happen automatically by each command if an Object

expected, but you can enforce it with this

typeof => results in the datatype of the current Property Internal Call: typeof \$CurrentStep

distanceto Internal Call: \$CurrentStep.distanceto.(\$NextStep)

=> results in the Distance between the current Object and the following Object. Next Object must be a single location Step.

(like a direct Object reference)

### Command Overview

Currently the following commands are implemented: (a detailed explaination follows)

Evaluating one or or more Expressions: &eval \$exp\_1 \$exp\_2 ...

Setting a Value at the end of a Property Chain/Expression:

&setval \$exp\_set \$exp\_get1 \$exp\_get2

Instantly teleporting an Object into another Space or near another Object: &warp \$exp\_object \$exp\_destination

Spawning a Ship for and generating a Report about it for Ship Modding Purposes:

&checkship \$macro\_id\_or\_exp crewskill.<number> paintcycletime.<number> ware.paintjob\_#1 ware.paintjob\_#2 ....

Destroying an arbitary Object (requires additional confirmation; will attempt to bypass protections):

&destroy \$exp\_object noexplosion

Reading a Text from the Text DB &readtext \$Page\_id \$t\_id <output\_method>

Ingame Help Command (depracted): &help <topic>

Copying an existing Object (WiP; not working yet): &copyobject (unsure about Syntax)

Print all UI events that happen to the Console (except 'Frame\_Advanced' and 'chatwindow\_opened'): &watchui <stop>

Print all Events that happen for a certain Object (not all implemented yet; only complete if the watched object is the event.object): &watch\_event\_object \$exp\_object|stop

Enable/Disable additional internal Output: &debugmode

Do certain Actions on Cues (can be used to force or re-start missions; be careful, can break stuff): &cue <action> \$exp\_cue \$exp\_param

Unlock certain commands that are considered dangerous (description marked in red above): & unlock

#### Color Explaination:

Actions that can be dangerous to continuing use of Savegames (will mark the Player Characters name with a red # )
Optional Parameter that can be omited if not needed
Optional Parameter that can be omited or repeated if wanted

Using scriptproperties.html locally (and some additions)