Roger Access Control System 5

Application note no. 016

Document version: Rev. B

<u>Attendance reporting and</u> <u>monitoring</u>

Note: This document refers to RACS 5 v1.6.6 or higher

Introduction

RACS 5 enables user attendance reporting and monitoring in VISO software. The offered functionalities enable to:

- Register users working time including attendance reports which can be:
 - reviewed and exported to a file by VISO operator
 - automatically sent to specified email accounts
 - available to users by web browser.
- Monitor number of users in zones.
- Locate users based on their current zones
- Report user statuses based on T&A Modes (e.g. exit on-duty, lunch break, etc.)
- Export T&A data to third party accountancy and T&A software.

Within this note it is assumed that RACS 5 system is already configured so it can offer access control features. Quick start of RACS 5 system is explained in AN006 Application note which is available at <u>www.roger.pl</u>.

Note: More advanced Time&Attendance is offered by additional RCP Master 3 software.

Attendance zones

Reports and monitors in VISO software are based on Attendance Zones which are defined by indication of Entry and Exit Access points (readers). Attendance zone is a logic object on the level of the whole system and not particular access controller so it can include any available Access Points defined in the system. Additionally, single Access point can be assigned to multiple Attendance zones. In case of Attendance reports usually single zone in the whole premises is specified with entry and exit points corresponding to company entrances and exits. In such scenario attendance time equals to working time. While in case of monitors, Attendance zones are configured according to requirements of specific installation.

In order to define Attendance zone:

- In the top menu of VISO software select *Time and Attendance* command and then *Attendance Zones* icon.
- In the opened window select *Add* button and in the next window name the zone. Parameters which are available in the window will be explained further in this note. Close the window with *OK* button.



Add Attendance Zone			
General			
Name:	Attendance Zone_1		
Backward Monitoring Time [h]:			24 🜲
Min. Attendance Time [min]:		_	(none) 🔻
Max. Attendance Time [min]:		_	(none) 🔻
Description:			< >
– Automatic Attendance Repor	t		~~
	📀 ок	8	Cancel

- In the bottom select the tab *Entry Points* and then *Assign* button to indicate Access points which will be treated by the system as entry readers to the zone. Close the window with *OK* button.
- Similarly select *Exit Points* tab and indicate exit readers from the zone. Close the window with *OK* button.

Time and Attendance

Time and Attendance in VISO software is based on Time and Attendance Report which can be used to calculate attendance time of users in particular zone and then to generate reports which can be exported to such formats as pdf, html, rtf, docx, xls, csv and others. Report can also be sent automatically to email addresses and made available to users via web browser.

The calculations in the report are based on access granted events. The report is started by selection of *Time and Attendance* command in the top menu of VISO software and then *Time and Attendance Report* icon.



Time and Attendance Repo	ort							- [
Settings When =rom: 02.03.2020	To: 06.03.2020 💌	Who							
Where Attendance Zone: Attendance Z				● Visitors ● Assets ● F sha,Carnay Amos,Rubin Stephe		rid Derrick,Casillas Ahrir	man,Stein Leslie,Lev		
								5	Apply
警 First-Last Report 🛛 할 First	t - Last Attendance Report 📋	Petailed Attendar	ice Report	🚊 Report					
ID Access User	First Name	Last Name	T&A	ID	Total time	Entries	Exits	Days	
e Sear Roc Search	R <mark>a</mark> c <i>Search.</i> .		REC	Search	= Search	= Search	= Search	= Search	
3 Garland Masha		Masha			40H 17M			5	5
4 Carnay Amos 5 Rubin Stephen	Carnay Rubin	Amos Stephen			40H 17M 40H 17M			5	5
6 Childers Adrien		Adrienne			40H 15M			5	5
etails : 3 er name: Garland Masha		Entries: 5	H 17M	Exits: 5					
er T&A ID:		Days: 5							
Preview									
Sunday	Monday	Tuesday		Wednesday	Thursday	F	Friday	Saturday	
March 1	2	3		4	5	6		7	
3	9	10		11	12	13		14	
15	16	17		18	19	20		21	
22	23	24		25	26	27		28	
29	30	31		April 1	2	3		4	

Settings

In the *Settings* area the time range, zone and users or filter can be selected for the report. Such filter is defined by selection of *Event log* command in the top menu of VISO software and then *Filters* icon. The filter enables more detailed selection of access granted events to be used in the report.

List and details

In the *List* area, the list of users is displayed along with their attendance data which can be sorted and searched. This basic report can be exported to file with *Report* button or as explained later it can also be automatically sent by email.

In the *Preview* area all detailed information can be displayed in the form of calendar (weekly and monthly) or table. Right clicking in calendar area enables to switch between different views and to select specific date.

Details						
	3	Total time:	40H 17M			
User name:	Garland Masha	Entries:	5	Exits:	5	
User T&A ID:		Days:	5			
Calendar De	tails Table View					
Monday	, March 2				Thursday,	, March 5
(7:59:38 A	M)-(4:02:28 PM), Attendance Time: 08:02:50				(7:55:58 AM)-(-(4:03:28 PM), Attendance Time: 08:07:30
Tuesday	/, March 3			Go to Th		ch 6
(7:58:55 A	M)-(4:00:21 PM), Attendance Time: 08:01:26			Go to <u>T</u> o		4:02:21 PM), Attendance Time: 08:02:34
				💽 <u>G</u> o to Da	ite	
Wednes	day, March 4			Change	View To 💦 🕨	week View
(7:58:51 A	M)-(4:01:20 PM), Attendance Time: 08:02:29				Sunday, M.	Month View
					bandayy in	v



Details					
ID: 3	Total time:	40H 17M			
User name: Garland Masha	Entries:	5 Exits:	5		
User T&A ID:	Days:	5			
Calendar Details Table View	Report				
Date	Entry		Exit	Duration	
2020-03-02	07:59:38		16:02:28	08:02:50	
2020-03-03	07:58:55		16:00:21	08:01:26	
2020-03-04	07:58:51		16:01:20	08:02:29	
2020-03-05	07:55:58		16:03:28	08:07:30	
2020-03-06	07:59:47		16:02:21	08:02:34	

First-Last Report

The report which is started by selection of *First-Last Report* button shows user who was the first to enter the attendance zone and user who was the last to exit the attendance zone each day. The report can be exported with *Report* button.

	First-Last F	Report						?	×
Att	endance Zone:	Attendand	ce Zone_1						
Fro		3/2/2020							
To:		3/6/2020							
				First-	Last Report				
	Date		First Entry	First User		Last Exit	Last User		
9	=		RBC	RBC		RBC	R 🗄 C		
Þ	3/2/2020		07:59:34	Rubin Stephen		16:02:32	Rubin Stephen		
	3/3/2020		07:58:52	Rubin Stephen		16:00:23	Rubin Stephen		
	3/4/2020		07:58:51	Garland Masha		16:04:13	Casillas Ahriman		
	3/5/2020		07:55:32	Casillas Ahriman		16:03:50	Casillas Ahriman		
	3/6/2020		07:59:23	Casillas Ahriman		16:04:43	Gip Narc		
L									
L									
	Report							~	ОК

First-Last Attendance Report

The report started with *First-Last Attendance Report* button shows summary list of entries and exits for selected users and their total time spent in the Attendance zone. This report includes only the first entries and the last exits, so if a user left workplace in the meantime then such additional entry and exit are not included in the *Total* field. The report can be exported with *Report* button.



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	ance Zon	Attendance Zon	e_1		
om:		3/2/2020			
		3/6/2020			
			First	- Last Attendance Report	
		Date	▲ First Entry	Last Exit	Time
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•	Acces	s User Person: [3] Garland Masha() (Total time: 40H	17M)	
	1	3/2/2020	07:59:38	16:02:28	8H 3
	2	3/3/2020	07:58:55	16:00:21	8H 1
	3	3/4/2020	07:58:51	16:01:20	8H 2
	4	3/5/2020	07:55:58	16:03:28	8H 8
	5	3/6/2020	07:59:47	16:02:21	8H 3
					Total time: 40H 17M
	Acces	s liser Person [4] Carnay Amos() (Total time: 40H 1	7M)	L
		-] Rubin Stephen() (Total time: 40H		
		-	Childers Adrienne() (Total time: 4		
		-] Madrid Derrick() (Total time: 40H		
		-			
		-] Casillas Ahriman() (Total time: 40		
•		-] Stein Leslie() (Total time: 40H 19		
•		s User Person: [1	0] Levine Mauro() (Total time: 40H	17M)	
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Fire	st - Last Attend	ance Report		
Fror To: Atte	m: 3/2/2020 3/6/2020 ndance Zone : Atter	ndance Zone_1		
	Date	First Entry	Last Exit	Time
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	2 3/3/2020	07:58:55	16:00:21	8H 1M
	3 3/4/2020	07:58:51	16:01:20	8H 2M
	4 3/5/2020	07:55:58	16:03:28	8H 8M
	5 3/6/2020	07:59:47	16:02:21	8H 3M
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	2 3/3/2020 3 3/4/2020	07:59:02	16:01:16	8H 2M
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Detailed Attendance Report

The report started with *Detailed Attendance Report* button shows summary list of entries and exits for selected users and their total time spent in the Attendance zone. This report includes all entries and exits and based on this data the *Total time* is calculated. The report can be exported with *Report* button.



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Automatic Attendance Report (email)

RACS 5 system can automatically send basic attendance report to specified email addresses. This functionality is ensured by communication service from Roger SVC packet software which is installed on RACS 5 server. The report is sent in attachment as PDF file and it includes list of users and their total attendance times in Attendance Zone which in general perspective correspond to total working times. Individual report can be generated for each Attendance Zone. In order to define Automatic Attendance Report:



- In the top menu of VISO software select *Tools* and then *SMTP Accounts*.
- In the opened window select *Add* to define SMTP server which will be used by RACS 5 system for email sending. Close the window with *OK* button.
- In the navigation tree of VISO software double click *Schedules* command.
- In the opened window select *Add*, name the schedule and select *General Purpose Momentary* type. Close the window with *OK* button.
- In the bottom select *Week Days* tab and then *Edit*.
- In the opened window select when report will be sent by right clicking day and hour. Schedules in RACS 5 are weekly based. For example, Friday 8:00 PM can be selected for report sending.
- In the top menu of VISO software select *Configuration* and then *Access User Persons*.
- Edit users who are supposed to receive reports and for each such user enter valid email address in *Contact Information* tab. If report are to be sent to a recipient who is not RACS 5 user then you can create new user in VISO software and enter valid email address without assigning any Access Credential, Authorisation(s) nor Authentication Factors (cards, PINs).
- In the top menu of VISO software select *Time and Attendance* command and then *Attendance Zones* icon.
- Add new or edit existing Attendance Zone and enter all details in *Automatic Attendance Report* area i.e. schedule, SMTP account and recipients. In the *Backward Monitoring Time* field you can define period for events which will be used in the report. If the report is supposed to cover 5 day working week then you can enter 5 x 24 h = 120h.

Edit Attendance Zone	
General	
ID:	1
Name:	Attendance Zone_1
Backward Monitoring Time [h]:	24 🔺
Min. Attendance Time [min]:	(none) 🔻
Max. Attendance Time [min]:	(none) 🔻
Description:	Ĵ
 Automatic Attendance Report 	t 🔨
Enabled:	
Backward Monitoring Time [h]:	120 🛓
Sending Schedule:	Schedule for Att. Reports 🔻
SMTP Account:	SMTP account1 🔻
Email Recipients:	Garland Masha 🔻
	Cancel

Report can be sent not only on weekly basis but also for example on the last day of month and in such case *Backward Monitoring Time* must also be adjusted properly. In order to define such Schedule:

- In the navigation tree of VISO software double click *Calendars* command.
- In the opened window select *Add* and name the calendar. Close the window with *OK* button.
- In the bottom select *Dates* tab and then *Edit*.
- In the opened window select the last day of month with left mouse button and then right click to mark the date. Repeat for successive months and then close the window with *OK* button.
- In the navigation tree of VISO software double click *Schedules* command.
- In the opened window select *Add*, name the schedule and select *General Purpose Momentary* type. Close the window with *OK* button.
- In the bottom select *Exceptions* tab and then *Edit*.
- In the opened window assign previously configured Calendar and select time for sending the report e.g. 8:00 PM.



• Assign the Schedule to Attendance Zone.

		? $ imes$ Add Exception ? $ imes$
click to chose available command.		Name: Schedule Exception_1 Priority: 1
< 2020 🔻 >		Date
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2 3 4 5 6 27 1 2 3 4 9 10 11 12 13 28 5 6 7 8 9 10 16 17 18 19 20 29 12 13 14 15 16 17 16 23 24 25 26 7 30 19 20 21 22 22 24 30 31 26 27 28 29 30 8 <t< td=""><td>31 1 32 2 3 4 5 6 7 8 Select Dates 3 14 15 0 21 22 Unselect Dates 7 28 29 29 20 20 20</td><td>2:00 3:00 4:00 5:00</td></t<>	31 1 32 2 3 4 5 6 7 8 Select Dates 3 14 15 0 21 22 Unselect Dates 7 28 29 29 20 20 20	2:00 3:00 4:00 5:00
er 2020 november 2020	december 2020	6:00
tu we th fr sa 1 2 3 6 7 8 9 10 14 12 2 3 45 1 2 3 4 5 6 7 8 9 10 11 12 13 14 13 14 15 16 17 20 21 22 23 24 27 28 29 30 31 49 29 30 49 29 30 40 48 9 10 11 12 13 14 41 12 15 16 17 18 19 20 21 49 29 30 49 29 30 49 29 30 49 29 30 40 49 20 4	su mo tu we th fr sa 49 1 2 3 4 5 50 6 7 8 9 10 11 12 51 13 14 15 16 17 18 19 52 20 21 22 23 24 25 26 1 27 28 29 30 31 1 2 2 3 4 5 6 7 8 9	7:00 8:00 PM 9:00 10:00 11 PM
	📀 ок 🛿	Cancel

Attendance Report via web browser

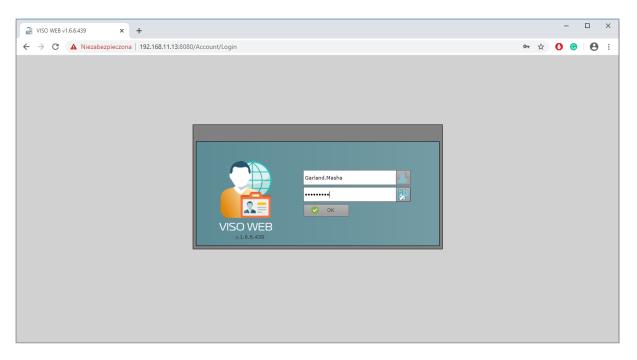
RACS 5 system users can access Attendance Reports via web browser. They can verify by themselves how many hours their worked or how many hours their subordinate employees worked. In order to configure the report via web browser:

- Enable RACS 5 system management by web browser according to VISO Web manual.
- Create VISO Operator with login and password according to AN040 application note. Assign predefined *Attendance Reports in VISO Web* Role to the Operator.
- In the top menu of VISO software select *Configuration* and then *Access User Persons*.
- Create new or edit existing Person and in the tab *Remote Management* assign the Person with previously created Operator. Due to such association the system will know whose attendance data will be displayed when Operator is logged to the system via web browser.

Edit Access Use	er Person						
General							
	ID:	3					
No image	Name:	Garland	Masha				
into intoge	First Name:	Garland					
	Last Name:	Masha					
	Group:	Office w	orkers				• 🛇
Contact Informatio	on Additional	Options	Remote Management	Private Data Protection	Description	Custom Field	
Operator:	Garland Masha						- ⊗
Default Credential:	None						- ⊗
Supervisor:	None						- O
L						ок 👩	Cancel

• Log into VISO Web app by entering Operator's login and password.





• Due to previously assigned predefined Role of the Operator only Attendance Report will be displayed in VISO Web. The button *Report* can be used to export data to PDF or XLS file.

VISO WEB v1.6.6.	439 × +						- 🗆 ×
← → C ①	Niezabezpieczona 192.168.11	.13:8080/(F(EYo64DEoQftMku0s	s321VvXnxhV6cLjJLTe	10GBND60JowC	DBdZTBSFhVF95HYSkCLTF	f-wQSVpEb8goJy7vuX6-m •	☆ 🕐 😉 \varTheta 🗄
System							
Time and Attendance Report							Logout
Settings							
– Where –				- When			
	e Zone: Attendance Zone 1		-	From: 20	20-03-02	To: 2020-03-06	
				20	20 03 02	2020-03-00	
							Apply
- Details							
First Name:	Garland			Last Name:	Masha		
	3				Garland Masha		
User T&&A ID:		- 1		Total time:	40H 17M		
Entries:	5	Exits: 5		Days:	5		
Preview							
🚊 Report 🔻							
	Date	Entry			Exit	Duration	n
2020-03-02		07:59:38		16:02:28		08:02:50	^
2020-03-03		07:58:55		16:00:21		08:01:26	
2020-03-04		07:58:51		16:01:20		08:02:29	
2020-03-05		07:55:58		16:03:28		08:07:30	
2020-03-06		07:59:47		16:02:21		08:02:34	
						Current On	erator: Garland Masha (28min.)

• Create more Operators and link them with users so they could access their Attendance Reports via web browser.

In typical application the Operator can only access data related to associated user but it is possible to assign supervisor to users. In such scenario the supervisor Operator can display Attendance Reports of all subordinate users (employees). Such association can be done in *Remote Management* tab.



Edit Access Use	er Person						×
General							
	ID:	3					
No image	Name:	Garland	Masha				
No inage	First Name:	Garland					
	Last Name:	Masha					
	Group:	Office w	orkers				- 🛇
Contact Informatio	n Additional	Options	Remote Management	Private Data Protection	Description	Custom Fields	
Operator:	Garland Masha						- ⊗
Default Credential:	None						- ⊗
Supervisor:	Carnay Amos						- ⊗
						ок 👩	Cancel

User location in the system

RACS 5 system offers various tools to locate current and past attendance of users in Attendance Zones.

Note: User location in Attendance Zones usually requires dedicated communication process to be operated in the background. The Attendance Zone monitoring process can be started in the window which is displayed by selection of *Tools* command in the top menu of VISO software and then *System Processes* icon.

Current Attendance Zone of user

In order to determine current Attendance Zone of a user:

- In the top menu of VISO software select *Configuration* and then *Access User Persons*.
- For selected user click User Zone button.

🔒 St	art Page								
Acces		sons							
÷ A	idd 🧪 E	idit 🗸 Select All 😑 D	elete 🛛 🚨 Wizards 👻 🖁	🗼 Synchronise 📔 😑 Erase	🖉 Assign to Group	💐 Refresh 🛛 🚊 Repor	ts 🔹 🛃 Print Card 🛛 🤰	Deleted Persons	User Zone 🔟 🕤 📕
	ID	Name	First Name	Last Name	Group	Email	Phone	T&A ID	Information Reference
۹	=	Roc Search	noc Search	Ruc Search	= Search	REC Search	Roc Search	Roc Search	Rac Search
•		Garland Masha	Garland	Masha	Office workers				
	4	Carnay Amos	Carnay	Amos	Office workers				
	5	Rubin Stephen	Rubin	Alter da			×		
	6	Childers Adrienne	Childers	Attendance Zone for [Access User Person] [3	3]: Garland Masha:	×	123	
	7	Madrid Derrick	Madrid		3/11/2020 9:02:30 A				
	8	Casillas Ahriman	Casillas						
	9	Stein Leslie	Stein	[]]: Attendance Zo	one_1			
	10	Levine Mauro	Levine				📀 ок		
	11	Progra Drac	Progra						
	12	Gip Narc	Gip	Narc	None				

List of users in Attendance Zone

Collective location of users in particular Attendance Zone is based on Attendance Monitor which shows users inside and outside the zone. If *Current Events* is selected as *Operating Mode* then attendance status is based on access granted events from the time range specified by the parameter *Backward Monitoring Time* which is defined when Attendance zone is created/edited and the point of reference is present time. During Attendance Zone configuration it is also possible to specify *Max. Attendance Time* and *Min. Attendance Time*. When any of these values is exceeded by a user then such user is displayed in colour in the Attendance Monitor. If *Past Events* is selected as *Operating Mode* then the reference point can be specified in the past by selection of date and time. Therefore the first mode enables to monitor current attendance while the second enables to monitor attendance in the past (e.g. week ago).



Edit Attendance Zone			
General			
ID:	1		
Name:	Attendance Zone_1		
Backward Monitoring Time [h]:			24 🜲
Min. Attendance Time [min]:			10 🔻
Max. Attendance Time [min]:			30 🔻
Description:			< >
 Automatic Attendance Report 			
	📀 ок	8	Cancel

The monitor enables selection of users and group of users or filter. Such filter is defined by selection of *Event log* command in the top menu of VISO software and then *Filters* icon. The filter enables more detailed selection of access granted events to be used in the monitor.

Attendance Monitor											- 0	×
												?
∧ Settings												
Where												
			_									
Attendance Zone: Att	tendance Zo	one_1	-									
Entry Points						Exit Po						
ID Name			Description			ID	Name		Descrip	tion		-8
2 C1_Door_1_ 4 C1_Door_2_							3 C1_Door_1_OUT 5 C1_Door_2_OUT					- 8
4 01_0001_2_							5 C1_0001_2_001					-8
Options						Who						
Operating Mode: Curr	rent Events		*				Groups Persons V	sitors 🔍 Asse	ts 🕒 Filter			
Users: 🗹	Show inside	users 🛛 Show ou	tside users				ect Objects: Garland Masha,			alders Adrienne Madrid D	errick Casillas Abri	-
						Jei	Certobjects. Ganand Masnay	arnay Amos, Ku	bin Stephenyer	liders Adrienne, Hadrid D	errickyCasillas Aritta	
											Apply	
Users inside							sers outside					
🐮 Refresh 🚊 Rep	oort				III 10 III		🕏 Refresh 🛄 Report				e 🖩	P
Access User	T&A ID	Group	Access Point	Entry Time	Attendance time		Access User	T&A ID	Group	Access Point	Exit Time	
[10]: Levine Mauro		(none)	[2]: C1 Door 1 IN	3/11/2020 7:24:57 AM	00:48:27		6]: Childers Adrienne	123	(none)	[3]: C1_Door_1_OUT	3/11/2020 7:25:30	AM
[9]: Stein Leslie		(none)		3/11/2020 7:24:52 AM	00:48:32		12]: Gip Narc	125	(none)	[5]: C1_Door_2_OUT		
[5]: Rubin Stephen		(none)	[4]: C1_Door_2_IN	3/11/2020 7:25:24 AM	00:48:00							
[8]: Casillas Ahriman		(none)	[2]: C1_Door_1_IN	3/11/2020 7:57:52 AM	00:15:32							_
[4]: Carnay Amos		[2]: Office wor	[2]: C1_Door_1_IN	3/11/2020 7:58:12 AM	00:15:12							_
[11]: Progra Drac		(none)		3/11/2020 7:58:36 AM	00:14:48							
[3]: Garland Masha				3/11/2020 8:12:52 AM	00:00:32							
[7]: Madrid Derrick		(none)	[4]: C1_Door_2_IN	3/11/2020 8:12:55 AM	00:00:29							
												_
			Number of user	rs: 8					Num	ber of users: 2		

Note: Monitor window can be dragged and dropped to be displayed beyond VISO main window. Additionally, multiple monitors can be started at the same time, each for individual Attendance zone.

Evacuation Report

Automatic reporting of users as reaction on event registered in RACS 5 system is explained in AN044 application note. Such functionality is mainly dedicated for RACS 5 operation with fire alarm system and in case of emergency it enables automatic generating and sending of Evacuation Report i.e. current list of users inside Attendance Zone. The list can be sent to email address and/or printer.



User status monitoring

User status monitoring requires T&A Status Monitor which can be used to gather such information as where is the user (e.g. at work, on-duty exit) and what is he doing (e.g. lunch break, on call). The functioning of T&A Status Monitor is based on T&A Modes, which are also used in case of RCP Master 3 software operation with RACS 5 system. T&A Modes can be automatically or manually selected by user who identifies at Access Point (reader). Apart from predefined modes such as Entry, Exit, Lunch break, etc. it is possible to define own modes in the window displayed by selection of *Time and Attendance* command in the top menu of VISO software and then *T&A Modes* icon.

T&A modes

In order to define automatic selection of default T&A Mode by user when access is granted:

- In the navigation tree of VISO software within particular MC16 access controller double click *Access Points* command.
- In the opened window select one of previously created points and then *Edit* button.
- In the next window, select *T&A Options* tab, specify required mode in *Default T&A Mode* field e.g. *Entry* and enable the option *Register T&A Event when physical access is granted*. The default mode can also be controlled by schedule so for example the same Access point can be entry point in the morning and exit point in the afternoon. The *T&A Mode* type schedule is defined by selection of *Schedules* command in the navigation tree of VISO software.
- Repeat the steps for remaining Access Points as needed.

Edit Access P	oint					
General						
ID:	2					
Name:	C1_Door_1_IN					
LCD Message:						
Keypad Shortcut:	No shortcut					Ŧ
						^
Description:						~
Authentication	Access Mode	Zone Options	T&A Options	Advanced O	ptions	
Default T&A Mo	de: Entry					T
T&A Mode Scher	dule: None					- ⊗
Register T&A Ev	ent when physical	access is granted				
				🕗 ОК	8	Cancel

In order to define manual selection of T&A Mode by user with function key on reader's keypad before access is granted:

- In the navigation tree of VISO software within particular MC16 access controller double click *Access Points* command.
- In the opened window select one of previously created points, in the bottom select *Function keys* tab and then *Add* button.
- In the newly opened window select the button \blacksquare to indicate the location of function key.
- In the next window, in the Name field of Object area select exemplary terminal MCT12M-IO (ID=101) and F[1] as Key Code if F1 key on keypad of the reader is supposed to be used for T&A mode selection. Close the window with OK button.



Add Function Key			
- General			
Name:	K1_101_KEYPAD_F[1]_Normal (Short Press)		
Description:			^
		_	~
Object			
Name:	MCT12M-IO v1.x_192.168.10.75_101_KEYPAD		- ⊗
Key Code:	F[1]		-
Device:	MCT12M-IO v1.x		
Label:	KEYPAD		
Comment:	Keypad on terminal ID101		^
			\sim
Туре:	KBD 1/[16056415]: F5005F		
IP Address:	192, 168, 10, 75		
RS Address:	101		
Additional Options			~
Event log			- • -
	📀 ок	🙁 Ca	ncel

• In the opened window select the function [153]: Set Momentary T&A Mode and select T&A mode in Parameter field e.g. [5]: Lunch Break. If no option is selected in Authentication and Authorisation Options box then no Authorizations is required and the F1 key can be used by anyone as user authentication for the key will not be necessary. Close the window with OK button.

Add Function Key		
General		
Function Key: C1_101_KEYPAD_F[1]_Short Press	-	
Function: [153]: Set Momentary T&A Mode		-
Parameter: [5]: Lunch Break		-
Register event: 🔽		
		~
Authorisation Options		- ^ -
User authentication required:		
Authorisation for Access Point required:		
Authorisation for Object required:		
Authorisation for Function Parameter required:		
с ок	🙁 Ca	ancel

- As needed, define more keys in similar way assigning the same function [153] but with other T&A Mode in *Parameter* field. Then such keys can be used for temporary (8s) selection of particular T&A Mode by user.
- Additionally for each Access Point used for selection of T&A mode click *Edit* button in the top, in the opened window select the tab *T&A Options* and enable the option *Register T&A Event when physical access is granted*. If any T&A Mode is specified in *Default T&A Mode* field then it will be effective till another T&A Mode is selected with function key and then it will be restored after 8s from such key pressing. Close the window with *OK* button.



Edit Access P	oint		
General			
ID:	2		
Name:	C1_Door_1_IN		
LCD Message:			
Keypad Shortcut:	No shortcut		•
Description:			< >
Authentication	Access Mode Zone Options T&A Options Advanced	d Options	
Default T&A Mo	de: Entry		
T&A Mode Sche	dule: None		- ⊗
Register T&A Ev	rent when physical access is granted: 🛛		
	📀 ок	8	Cancel

Authorisations

Both mentioned above methods for T&A Mode selection and registration require additional configuration of Advanced Authorisation for function *[155]: Register T&A Event* and then assignment of such Authorisation to users who are supposed to generate T&A events used in T&A Status Monitor.

In order to define required Authorisation:

- In the navigation tree of VISO software expand *Authorisations* command, double click *Advanced Authorisation* command and select *Add* button in the opened window.
- In the next window select the function [155]: Register T&A Event. If the option Includes authorisations for all rules is enabled then the Authorisation will be universal in such extent that it will allow T&A registration on each Access Point in the system.
- Upload settings to controllers.
- Assign the Authorisation to users for example by means of Edit Person Online wizard which is available after selection of *Wizards* command in the top menu of VISO software.

Add Advanc	ed Authorisation		
General			
Enabled:			
Name:	T&A Events registration		
Туре:	Main		Ψ.
Valid from:	[Not limited]		
Valid to:	[Not limited]		
Description:			< >
Details			
Refers to:	Function		Ψ.
Action:	[155]: Register T&A Event		•
– Advanced Opt	ions		-^7
Includes authori	sations for all rules:		
Includes authori			
Includes authori			
	📀 ок	8	Cancel

Monitoring

The main condition for functioning of the monitor is proper registration of T&A events by users when access is granted. Then the system operator can gather information on current status of users as well as history of their statuses in a time range specified by the parameter *Backward Monitoring Time [h]*. It is also necessary to indicate Attendance zone in the monitor and users. Similarly as in case of Attendance Monitor instead of users or users groups the event filter can be selected. Such filter is defined by selection of *Event log* command in the top menu of VISO software and then *Filters* icon. The filter enables more detailed selection of T&A events to be used in the report.

	Monitoring Time [h]: 24	Who Groups Persons Visitors , Select Objects: Garland Masha,Carnay Amog		.Casillas Ahriman,Stein Lesle,Levine Mauro,Progra Drac,Gip Narc	
Statu				5	Apj
	and All 📜 Collapse All 🚊 Report	Date	T&A Status	Access Point	C'
User		BBBBBBBBBBBBB	1010000		
User	erson: [3] Garland Masha	3/11/2020 9:02:30 AM	Entry	C1 Door 1 IN	
P	erson: [3] Garland Masha erson: [4] Carnay Amos	3/11/2020 9:02:30 AM 3/11/2020 9:02:23 AM	Entry	C1_Door_1_IN C1_Door_1_IN	
P	erson: [4] Carnay Amos	3/11/2020 9:02:23 AM	Entry	C1_Door_1_IN	
P P P					
P P P	terson: [4] Carnay Amos terson: [5] Rubin Stephen	3/11/2020 9:02:23 AM 3/11/2020 9:02:16 AM	Entry Entry	C1_Door_1_IN C1_Door_1_IN	
P P P P	rerson: [4] Carnay Amos rerson: [5] Rubin Stephen rerson: [6] Childers Adrienne	3/11/2020 9:02:23 AM 3/11/2020 9:02:16 AM 3/11/2020 9:01:27 AM	Entry Entry Entry	C1_Door_1_IN C1_Door_1_IN C1_Door_1_IN	
P P P P	erson: [4] Carnay Amos terson: [5] Rubin Stephen terson: [6] Childers Adrienne terson: [7] Madrid Derrick	3/11/2020 9:02:23 AM 3/11/2020 9:02:16 AM 3/11/2020 9:01:27 AM 3/11/2020 9:02:33 AM	Entry Entry Entry Entry	C1_Door_1_IN C1_Door_1_IN C1_Door_1_IN C1_Door_1_IN C1_Door_1_IN	
P P P P P	erson: [4] Carnay Amos erson: [5] Rubin Stephen erson: [6] Childers Adrienne erson: [7] Madrid Derrick erson: [8] Casillas Ahriman	3/11/2020 9:02:23 AM 3/11/2020 9:02:15 AM 3/11/2020 9:01:27 AM 3/11/2020 9:02:33 AM 3/11/2020 9:02:27 AM	Entry Entry Entry Entry Entry	C1_Door_1_IN C1_Door_1_IN C1_Door_1_IN C1_Door_1_IN C1_Door_1_IN	
P P P P P	erson: [4] Carnay Amos erson: [5] Rubin Stephen erson: [5] Childers Adrienne erson: [7] Madrid Derrick erson: [8] Caillas Ahriman erson: [9] Stein Leslie	3/11/2020 9:02:23 AM 3/11/2020 9:02:16 AM 5/11/2020 9:02:27 AM 3/11/2020 9:02:23 AM 3/11/2020 9:02:27 AM 3/11/2020 9:02:20 AM	Entry Entry Entry Entry Entry Entry	C1_Door_1_IN C1_Door_1_IN C1_Door_1_IN C1_Door_1_IN C1_Door_1_IN C1_Door_1_IN	
P P P P P	erson: [4] Carnay Amos erson: [5] Rubin Stephen erson: [6] Childers Adrienne erson: [7] Madrid Derrick erson: [7] Madrid Derrick erson: [8] Casillas Ahriman erson: [10] Levine Mauro	3/11/2020 9:02:23 AM 3/11/2020 9:02:16 AM 3/11/2020 9:02:16 AM 3/11/2020 9:02:23 AM 3/11/2020 9:02:23 AM 3/11/2020 9:02:20 AM 3/11/2020 9:02:05 AM	Entry Entry Entry Entry Entry Entry Lunch Break	C1_Dor_1_IN C1_Dor_1_IN C1_Dor_1_IN C1_Dor_1_IN C1_Dor_1_IN C1_Dor_1_IN C1_Dor_1_IN	

Note: Monitor window can be dragged and dropped to be displayed beyond VISO main window. Additionally, multiple monitors can be started at the same time, each for individual Attendance zone.

T&A data export to third party systems

Events which are registered in RACS 5 system can be exported to third party systems for the purpose of Time and Attendance. In such scenario, mentioned earlier T&A Modes must be applied in order to distinguish which access granting should be considered as work starting and leaving.

T&A data can be exported manually to file after selection of *Event Log* command in the top menu of VISO software, then *Event log* icon and *Export* button in the opened window. The data can also be exported automatically as a reaction for specific event which is defined by selection of *Event Log* command in the top menu of VISO software, then *Event Types* icon and *Actions* tab for selected event. More information on alerts and notifications is given in AN041 application note.

There are predefined T&A data formats in VISO software and it is possible to define own format by selection of *Tools* command in the top menu of VISO software and then *T&A Formats* icon.



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