

# XPressEntry / CCURE 9000 REST Integration Revision 07/24/2023

For use with the XPressEntry Mobile Access Control System

By



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### Purpose

This document intends to instruct users on how to synchronize an XPressEntry system with the CCURE 9000 system.

### Setting up CCURE 9000 REST to Synchronize with XPressEntry

Requirements for CCURE 9000

- 1. CCURE 9000 3.0 License *must* include the XPressEntry Integration feature in their license feature list.
  - a. If it does not, please contact Software House.
- 2. Microsoft .NET 4.6.2 is required for XPressEntry Install
- 3. **OS:** Windows 7 and above. XPressEntry is **not compatible** with Windows server 2003 or Windows XP.

#### **CCURE** Setup

- 1. In the CCURE 9000 Administration Station:
  - a. Create a new operator for the machine that XPressEntry will be running on <u>OR</u>
  - b. Create a new LOCALSYSTEM operator if XPressEntry will be running off the same machine as the CCURE 9000 Machine.
- 2. Select **Configuration > Operator > New.**

Search «	▲ Operator × +	
Q Search (Ctrl+E)	Views + 62 😴 🕒 🍓 📇 🍸 🛠 🕼	
Configuration **	Drag columns to group by here	
A New  Coperator  Cope	Name	
Search	Local System	Local System Account
Quick	kelly	TELAERIS_kelly
	api	
Active Template:	api2	
	nathaniel	
Description:	Nathaniel AD	
×		
Enabled:		
Locked Out:		
Name:		
Template:		
Advanced		
parananan		

- a. Configure the Operator as shown below. Ensure the **Enabled** checkbox is checked.
  - i. Recommended username: XPRESSENTRY
  - ii. Recommended password: Telaeris1!
  - iii. If you choose to create different credentials, be sure to remember them as they will be needed to connect XPressEntry to CCURE 9000.

Operator - XPressEntry					_		×
ave and Close 🔚 Save a	nd Ne <u>w</u>						
Name:	XPressEntry						]
Description:						Ô	]
	Enabled						
eneral Layout Groups	User Defined Fiel	ds Web S	State images				
Operator Authentication							
	User Name:	XPRESSEN	TRY				
Windows							
	Domain Name:						
Basic							
	Password:	•••••					
Co	onfirm Password:						
OAuth							
	OAuth Identifier:						
Privileges and Schedules							
* <u>A</u> dd = <u>R</u> emov	/e						
Privilege			Group	Schedule			٦
SYSTEM ALL				Always			

- 3. In the CCURE 9000 Administration Station:
  - a. Add a new **iSTAR** classic controller (**eX** or **Ultra** are also acceptable). This acts as a logical controller for all XPressEntry handhelds.
    - i. You can create the controller under a new cluster, or an existing cluster.
  - b. Add a random MAC Address to this controller.
  - c. On the boards tab, make sure at least one Access Control Manager (ACM) is configured.

ISTAR (												
Save and	Close											
		News		OTAD	<u> </u>							_
		Name.	APressEnt	INISTAR	Controller							
	De	escription:										^
					-							~
			Mainter	u nance Mr	de							
	т	ime Zone:	(GMT-08:00	0) Pacific	Time (US & (	Canada)						
General	Inputs	Outputs	Wiegand	RS-485	Advanced	High Assurance	Triggers	Groups	Status	Network Stat	us Secur	it 🖣
Genera	al											
		Co	ntroller Type	ISTAR	REdge G2							
		Μ	AC Address	: 0050F	9AAABBB							
	Rea	der LCD I	Aessage Set	t:				× .				
			T: 7	CMT			1.5					
Onboa	rd Etherr	net	Time Zone		-08:00) Pacifi	ic Time (US & Car	ada)	*				
Onboa	rd Etherr	net Add	ress Family	: • IP	08:00) Pacifi	ic Time (US & Can	ada)	~				
Onboa	rd Etherr	net Add <b>figuratio</b>	ress Family n can only b	: OIP	V4 () IPV6	ic Time (US & Can 6 ebpage.	ada)	~				
Onboa Netwo	rd Etherr ork con	Add f <b>iguratio</b> er/LED Cor	ress Family n can only b	: IP IP	08:00) Pacifi V4 () IPV6 ia iSTAR we	S seppage.	ada)	V				
Onboa	rd Etherr ork con ess Powe	Add <b>figuratio</b> er/LED Cor	ress Family n can only b	: (CIWIT-	V4 O IPV6	ic Time (US & Can 5 ebpage. and LCD backligh	ada)	V				
Onboa Netwo Suppre	rd Etherr ork con ess Powe	Add <b>figuratio</b> er/LED Cor	ress Family n can only b	: (UNIT) : (IP) Re done vi	V4 OIPV6 ia iSTAR we	5 Sand LCD backligh	ada)	V				-
Onboa Netwo	rd Etherr ork con ess Powe	Add figuratio er/LED Cor Commun	ress Family n can only b trol	: (UNIT) : (IP) se done vi 	V4 () IPV6	5 seppage.	ada)	in XPr	essEntry	Cluster		
Onboa Netwo	rd Etherr ork con ess Powe Info	Add figuratio er/LED Cor Commun	ress Family n can only b ntrol	: (CIWIT: : ) IP te done vi : :	V4 O IPV6	S and LCD backligh	ada)	in XPr	essEntry	Cluster		-
Onboa Netwo Suppre Cluster Diagno	rd Etherr ork con ess Powe Info	Add figuratio er/LED Cor Commun	ress Family n can only b itrol	: (UIWI	V4 O IPV6 ia iSTAR we m off LEDs a Set	6 and LCD backligh	t	in XPr	essEntry	Cluster		-
Onboa Netwo Suppre Cluster Diagno	rd Etherr ork con ess Powe	Add figuratio er/LED Cor Commun sword	ress Family n can only b ntrol	: (CIW	V4 () IPV6 ia iSTAR we rn off LEDs a Set	s ebpage. and LCD backligh	t	in XPr	essEntry	Cluster		
- Onboa Netwo - Suppre - Cluster	rd Etherr ork con ess Powe	Add figuratio er/LED Con Commun sword	ress Family n can only b ttrol	: (CM114	V4 () IPV6 ia iSTAR we rn off LEDs a	S ebpage. and LCD backligh	t	in XPr	essEntry	Cluster		
Onboa	rd Etherr ork con ess Powe	Add figuratio er/LED Cor Commun sword	ress Family n can only b trol	: (Cm 1	V4 () IPV6 ia iSTAR we rn off LEDs a	5 ebpage. and LCD backligh t Password	ada)	in XPr	essEntry	Cluster		
Cluster	rd Etherr ork con ess Powe	Add figuratio er/LED Cor Commun sword	ress Family n can only b ttrol	: (CIM 11	V4 () IPV6 ia iSTAR we rn off LEDs a	5 <b>s</b> <b>s</b> <b>s</b> <b>s</b> <b>s</b> <b>s</b> <b>s</b> <b>s</b>	t	in XPr	essEntry	Cluster		

- 4. Double click the ACM that you would like to put the readers on. Click on the Wiegand tab *(older versions say Readers)* and add the different readers. One is required for each entry and exit per passageway.
- 5. XPressEntry handhelds have an Entry and an Exit mode. If both Entry and Exit will be utilized, add two readers for each XPressEntry handheld. (*Example below demonstrates two readers for handheld*)

General	Inputs	Outputs	Wiegand	RS-485	Advanced	High Assurance	Triggers	Groups	Status	Network	Status	Securit 1
Reade	rs											
<mark>⊻</mark> <u>C</u> re	ate All Re	aders [	📃 Delete <u>/</u>	<u>A</u> ll Reade	rs							
	Edit	Ind	lex	Con	figured	Name					Templ	ate
		1			$\checkmark$	XPressEntry iST	TAR Contro	oller Reade	er Entry			
•		2			$\mathbf{\nabla}$	XPressEntry iS1	TAR Contro	oller Reade	er Exit/M	uster		

6. Next, create a door that uses the inbound and outbound readers that were just created in Step 3 by right-clicking **Controller > iSTAR Door > New**.

iSTAR Door - XPr	essEntry Handheld	_		>
Save and Close [	Save and New			
	Name: XPressEntry Handheld			]
Desc	ription:		<b>^</b>	
Time	Maintenance Mode			
Provious Pomonnol	Pate images			
General Timing A	reas & Zones Double Swipe Triggers Groups Status Door Monitoring User Defined Fields	Specia	al Actions	
Location	Controller: XPressEntry iSTAR Controller			
Hardware			_	
	Door Switch Monitor:		×	
	Alternate Shunt Relay:		- -	
	Shunt Expiration Relay:		~	
Readers			_	
	Inbound Reader: XPressEntry iSTAR Controller Reader Entry		•	
	Outbound Reader: XPressEntry iSTAR Controller Reader Exit/Mus		•	
	Readers are continuously active			
Request To Exit	Request To Exit Input:		¥.	
	Unlock Door on RTE			
	Shunt DSM while RTE is active			
Settings [	Send non-alarms input status to the host			
	Require Manual Action Instructions			
Random Screeni	Ig Enable Random Screening Percent: 0	÷	-	
	Activate Panel Event:			

7. Go to **iSTAR** areas and assign the areas with the doors just created. If the areas are being created for the first time, make sure to create the two areas first, then assign the doors to any of the areas; otherwise, CCURE 9000 will not let you save the area with the added doors as there is no second area to add. The *cluster* must be set to **antipassback** if the *area* is set to **antipassback** or else you cannot add the door.

Creating Areas:

iSTAR Area - XPressEntry IN	-		×
💂 Save and Close 📓 Save and Ne <u>w</u>			
Name: XPressEntry IN			]
		<u></u>	
Maintenance Mode			
General Antipassback Occupancy Escort Muster Triggers Status State images			
Area Type			
Type: Ouster Area V Cluster: XPressEntry Cluster ·			
Access In			
Add E Kemove		_	
Door Header Enters from Area			
Access Out			
Loor Header Exits to Area			

8. Add the door and readers you created to their proper zones. Remember to also set appropriate permissions for the readers.

Access	In		
* <u>= A</u> dd	E <u>■</u> emove		
	Door	Reader	Enters from Area
•	XPressEntry Handheld	XPressEntry iSTAR Controller Reader Entry	XPressEntry OUT

Access Out

Door	Reader	Exits to Area
XPressEntry Handheld	XPressEntry iSTAR Controller Reader Exit/Muster	XPressEntry OUT
	Door KPressEntry Handheld	Door         Reader           KPressEntry Handheld         XPressEntry iSTAR Controller Reader Exit/Muster

### XPressEntry Setup on CCURE Box

- 1. Install XPressEntry
- 2. Download License file.
- 3. Set up a Service account. XPressEntry utilizes a **WCF Service** to communicate with CCURE. This Service uses the <u>same username and password as the administrator user account</u>.
  - a. Navigate to Services in Windows. Click on the XPressEntryService. Select Stop.
  - b. Right-click the **XPressEntryService**. Select **Properties**
  - c. Select the **Log On** Tab. Check the **This Account** (radio button). Enter the Windows Username as well as the Password for this Administrator.
  - d. Select OK

XPressEntryServic	e Properties	s (Local Comput	er)		×
General Log On	Recovery	Dependencies			
Log on as:					
◯ <u>L</u> ocal System ◯ Allo <u>w</u> serv	account ice to interac	t with desktop			
This account	j .\al	ex		Browse	
Password:	••	•••••	•		
<u>C</u> onfirm passv	word:	•••••	•		
		ОК	Cancel	<u>A</u> pply	

#### Data Manager Tab

Open XPressEntry as an Administrator. If this is the first time you have opened the program, it will have you set up the basic information. Once this is complete, select **Tools > Settings (ALT+S)**.

🛃 XPressEnt	ry - 3.5.6413 - <sup>-</sup>	Telaeris (Logged In User:	Administrator, Co	mpany)				-	- 0	×
🥌 File	Tools	🚱 View 🔌 Logo	out 🕅 Muste	r					?	Help
Entry/Exit Mu	Settings	Alt+S istory	Messages Add/Edit	Info Logs						
Zone	Handheld S	tatus 🧭			All Zones (Oc	cupancy: 7)		C	Current Occupan	ts ~
Filter:	Reports Manual Entr Add Handh (7) (0) ate 2 (0) ate 3	e/ Criti + R er/ Exit Users eld Wizard Company Arshall Entered: Time in 2 Badge #: Company	ca 27/11 06 457 58 ampl James 56/04 05 one 271 468 Sampl	Banderas, An Entered: 07/11 Time In Zone: Badge #: D56 Company: Sa <b>Ghellor, Henn</b> Entered: 0572 Time In Zone: Badge #: 922 Company: Sa	tonio 105 945 904 273 mpl	Jenkins, Winford Entered. 10/26 02 Time In Zone. 615 Badge #: F9BA37 Company: Sampl Kemp, Mark Entered. 05/29 03 Time In Zone. 273 Badge #: 453 & Company: Sampl.		looney, George Intered: 10/26 10 me In Zone: 62 adge #: 2534AA ompany: Sampl		
		× = 0		Ac	tivity Occurri	ng in Last Day	/		0	
		User	User Image	Time Stamp	Start Zone	End Zone	Door	Reader	Entry Grantee	i _
		Bell, Monica	R	07/11 06:25:27	Outside	Building 1	Main Gate 1	Handheld 4	True	
		Gale, Sarah	0	07/11 06:24:47	Outside	Building 1	Main Gate 1	Handheld 4	True	
		Pennington, Ma	<u>.</u>	07/11 06:24:03	Outside	Building 1	Main Gate 1	Handheld 4	ACCESS DEM	41
		Gale, Sarah	0	07/11 05:13:51	Outside	Building 1	Main Gate 1	Handheld 4	True	
Activity Occur	ancy Partial	Full   Total Occur	ancy: 7 Inside 1 Zo	ne l	0 Upread I	Messages	1	Service Bunning	Locally	_

1. Open the Server Tab. Set the Server Type to Local Windows Service. Select Start Service. The text above will appear green if the service was successfully started.

	XPressEntry Service			
	Service: Running			
General Add / Edit Display				
Badges	Service Type	Local Windows Service	$\sim$	
RFID User Defined Fields	Service Host Name	localhost		
Muster Settings	Cardificate Identify	VProceEntr/Conico		
Question Setup	Certificate Identity	AFIessEntryService	Service	
Client Settings	Validate Service Certific	cate 🔄	Certificate	
erver	HTTP/S Handheld Serve	ər		
Service Settings Database	HTTP w/ SSL	HTTP Port: 30000 Use	Legacy HTTP Server	
Data Manager	Enable HTTPS	SSL Port: 30001		
Software Event Viewer	SSL Websocket	🔒 Certi	ficate	
Reader Profiles	Push Interval(ms)	5000		
Reader Validations	SSL Cert Thumborint	DCA7E7588E2EE10DC830DC44105CAB8A	7C36E3A6	
Passwords				
Badge Settings Custom Display	Name/IP for Clients	192.108.0.10	~	
Validation Colors				
Doors Trend Settings	Let's Encrypt Certificate			
lert Settings	Server Domain:		Result:	
Email Settings	Admin Email:			
Twillo Alerts	Denound Interval(days)	0		
	Renewal Interval(uays)			
		Check and Get Clear Let's L	Encrypt	
		Certificate Now Account Se	ettings	

2. Open a Save. **.dd** > Then, click A

a. Click on the tab that pop ups under Data Manager listing the CCURE 9000 Data Manager.

XPressEntry Settings						- 0	×
Pile Database SQL import/Export	Tupo	CCUBE 9000	~	Δ	dd	Pomovo	
General Add / Edit Display	Type				uu	Remove	
Badges RFID	Name	CCURE_9000		Prefix			
User Defined Fields Muster Settings							
Lagging Client Settings Wiegand Format Data Service Settings Databases Databases Data Manager Software Event Viewer Reader Profiles Handheld Functionality Reader Profiles Handheld Functionality Reader Validiations Passwords Badge Settings Custom Display Validation Colors Doors Trend Settings Email Settings Email Settings Twilio Alerts			~)				
					Sanity C	heck Data	
					Sa	ve Can	cel

3. Check the **Enable Data Manager** checkbox, and then click on the button that says **Setup Data Manager**.

ie Dutubuse sterniporti Expo	rt			
	P Enable Data Manager Type: (	COURE 9000		Setun Data Manager
General		booning_boot		
Add / Edit Display	Sync Timers Sync Options			
Badges	· · · · · · · · · · · · · · · · · · ·			
RFID User Defined Fields	Disa	able Concurrent		Send XPressEntry Activities No
Muster Settings		Syncs		Cond / TroopEndy / Rearing of to
Question Setup				
Logging	Download Activity Frequency	Set	Clear	Download Activity Now
Client Settings Wiegand Format Data				
Server	Occupancy Sync Frequency	Set	Clear	Occupancy Sync Now
Service Settings				
Database	Partial Sync Update	Set	Clear	Partial Sync Now
CCURE 9000	Frequency			
Software Event Viewer	Full Sync Update Erequency	Set	Clear	Full Sync Now
eader Profiles				
Handheld Functionality Reader Validations	Custom Sync Update	Set	Clear	Custom Sync Now
Passwords	Frequency		olcui	ousion oyne now
Badge Settings				
Validation Colors				
Doors				
Trend Settings				
lert Settings	Data Manager Live Log View Pause	Mirror Log To:		Browse
Emoil Sottingo				
Email Settings Twilio Alerts				
Email Settings Twilio Alerts				
Email Settings Twilio Alerts				
Email Settings Twilio Alerts				
Email Settings Twilio Alerts				
Email Settings Twilio Alerts				
Email Settings Twilio Alerts				
Email Settings Twilio Alerts				
Email Settings Twillo Alerts				
Email Settings Twilio Alerts				
Email Settings Twilio Alerts				

- 4. Under Server IP, confirm the value is **localhost** if installing XPressEntry on the same machine as CCure.
  - a. Otherwise, specify the server IP where CCURE is installed.

5. Enter the login credentials that match the operator created earlier. The client name simply identifies the connection but can be any name. If the operator created matched the provided example, credentials should appear as follows:

Setup UDFs	
CCURE	Client Login
Server IP:	localhost
User Name:	XPRESSENTRY
Password:	Telaeris1!
Client Name:	XPressEntry

- 6. Enter the Server IP for the CCURE Connector Service installation and port. Since the CCURE Connector Service will most likely be installed on the same machine as CCURE, *the IP should match the IP under CCURE Client Login*.
  - a. For instructions on installing and configuring CCURE Connector Service, see CCURE Connector Service documentation on the CCURE Partner page.
- Select Connect, and if configured correctly, "Successfully Logged In!" will be output. Click OK > Save. "DataManager Connected" should appear in the Data Manager Live Log View if connected.



8. Select **Full Sync Now**. If the system is configured correctly, the Data Manager Live Log View will begin to download records from CCURE.

⊠ Enable Dat	a Manager	Type <sup>-</sup> CC	URF9000RF	ST		Setup Da	ta Manager
Svnc Timers	Sync Option	ns					<u> </u>
_,	ojno opuol	Disab	le Concurrent Syncs			Send XPressEntry	Activities Now
Dow	nload Activity Frequency			Set	Clear	Download Act	ivity Now
Occupancy Sy	nc Frequency			Set	Clear	Occupancy S	ync Now
Partial	Sync Update Frequency			Set	Clear	Partial Syno	Now
Full	Sync Update Frequency			Set	Clear	Full Sync	Now
Custom	Sync Update Frequency			Set	Clear	Custom Syn	c Now
Data Manager Live	e Log View	Pause	Mirror Log To:				Browse
INFO: User Sync Progress: 100% VERBOSE: DB Query for deleted records: SELECT id, external_id from users_udfs WHERE external_id is not null AND external_id <> " AND user_id IN (SELECT id FROM users WHERE external_id IN(8320',8321',8322',8323',8324',8325',8326',8327',8328')) AND deleted_at IS NULL INFO: Checking for UDF values to update INFO: Users Updated (9) from Source. 9 Changed DEBUG: users Updated 0/9 VERBOSE: Starting Full Sync: 10:13:06 AM NONE: Full Sync Running Now : 10:13:06 AM INFO: DataManager Connected. DEBUG: DataManager Connected. DEBUG: DataManager Table State Changed: session_id:05f3d3c7-afc6-446f48c3-2f37c2bf0577							
						Save	Cancel

- 9. Configure the following settings by pressing **Set** and defining the interval in which these actions will occur.
  - a. Activity Update Frequency How often activities are synced between XPressEntry and CCURE.
  - b. **Partial Sync Update Frequency** How often occupancy is updated in XPressEntry from CCURE.
  - c. **Full Sync Update Frequency** How often all records are updated between XPressEntry and CCURE.
- 10. Select **Sync Options** and Enable the following settings:
  - a. Pull DataManager Occupancy
  - b. Pull Data Manager Activities into XPressEntry
  - c. Push XPressEntry Activities to Data Manager
  - d. Watch Tables via Software Events
  - e. Enable Message Queue. Click Save.



11. Select Save and Apply Settings

### Troubleshooting

If the below message is found in the log view, adjust the CCURE Connector Service settings to **match the IP and port** in your CCURE Connector Service installation.

If they do match and this error still appears, refer to the troubleshooting section of the CCURE Connector Service documentation.



If the below message is found in the log view, make sure the **Server IP** field of the setup form is simply the **domain name** including the top-level domain (telaeris.com, telaeris.net, etc...). **Do NOT include http://** or any protocol, or a path value following the domain name. If this criteria is met and this error is still found, be sure that both the machine running XPressEntry and the machine running CCURE are on the **same network**.

Data Manager Live Log View	Pause	Mirror Log To:	Browse
ERROR: Unable to connect to CCURE Invalid Server IP. Check the address an ERROR: DataManager Error on Initial C Invalid Server IP. Check the address an	due to error: Lo od try again. Connect:Login E od try again.	ogin Error Code: 0 Error Code: 0	^

If messages like the ones below are seen, the **username** or **password** used is **invalid**. Make sure that the username and password match those of an **Operator** in the CCURE system as described in the **CCURE Setup** section.

Data Manager Live Log View P	Yause Mirror Log To:	:				
ERROR: DataManager Error on Initial Conne "*** LOCKED_OUT ***"	ct:Error Code: NotFound					
ERROR: Unable to connect to CCURE due t "*** LOCKED_OUT ***"	to error: Error Code: NotFour	nd				
INFO: Starting Watching Tables DEBUG: DataManager Settings Updated						
ERROR: Unable to connect to CCURE due t "*** LOCKED OUT ***"	to error: Error Code: NotFour	nd				
NONE: Full Sync Finished Running Now : 2:56:06 PM FRROB: Unable to connect to CCURE due to error: Error Code: NotFound						
"Either the usemame does not exist, is disable VERBOSE: Starting Full Sync: 2:56:05 PM	ed, or the password entered	is invalid. Connection refused."				
NONE: Full Sync Running Now : 2:56:05 PM NONE: Full Sync Finished Running Now : 2:56:00 PM						
ERROR: Unable to connect to CCURE due t "Ether the usemame does not exist, is disable VERPOSE: Starting Full Super 2:56:00 PM	to error: Error Code: NotFour ed, or the password entered	nd Is invalid. Connection refused."				