What's New

Controller Interface Service

V2.17.07.0

Xtime

Workforce Management Solutions

Securing your time and resources

This document is a listing of the changes made to the Controller Interface service. Please take careful notice of the items highlighted in yellow.

IMPORTANT:
Only use V2.17.07.0 when the entire site has been upgraded to V2.17.04.0 or later including the Controller Interface and XTUpgrade. This version will not function correctly with previous versions.

V2.16.10.6 must be run on sites that have a Sagem Engine running

V2.16.10.5 Controller Interface must be run with V2.16.10.4 of Xtime900.
Always ensure to have run get upgrade queries for database changes before running the Controller interface.

Ensure that Get Upgrade queries V2.16.06.4 has been run before using Controller Interface V2.16.06.4. Also ensure that Firmware V7.27 is used for the Shift cycle longer than 365 days.

Ensure that Get Upgrade queries V2.16.06.0 has been run before using Controller Interface V2.16.06.0.

Ensure that Get Upgrade queries V2.16.01.10 has been run when using Controller Interface V2.16.01.10.
(Client specific development)

Ensure that Get Upgrade queries V2.16.01.0 has been run when using Controller Interface V2.16.01.0.

V2.17.07.0
47714:177223 Major Release version update

V2.17.04.2
30794:160871 Mifare tag code not sent correctly for HHT
The conversion of the tag code was not done correctly causing Mifare tags not to register on the Handheld Terminal

V2.17.04.1
47717:177223 Engine Cache stopping
It was reported that some engine cache threads were stopping and not recovering if there was a loss in connection to the database. This would cause updates to not go through to the controllers on that engine. We have added recovery code to ensure that the thread regains its connection and continues as normal.

V2.17.04.0
46334:172747 Employee and visitor required equipment
An extended option to add required equipment to employees and visitors has been developed. This is done to ensure that the employee or visitor has the required equipment allocated to him.

46333:172297 Visitor Equipment
Visitors have been included in the equipment module

45607:169673 Morpho Face Recognition
Sagem Morpho facial recognition has been added to the XTime Suite

V2.17.01.2
46655:174382 De-Allocate Equip from employees on SAFETYEQUIP table when returned
When the auto return feature is active, the equipment was being deallocated from the EMPEQUIP table by the firmware but the CI was not doing the same on the SAFETYEQUIP table which displays the equipment from the main

menu. The result was that the equipment was deallocated in the database, but the XTime screen still showed the equipment as being allocated.

V2.17.01.1

45951:171374 Try Except to prevent engine thread from closing
The engine thread would get shut down by a process and was unable to recover. We have inserted a try except that will trap the problem and move on which will stop the engine thread from stopping.

V2.17.01.0

Major changes have been made in this release for handling modules and licencing due to the introduction of the XTLite and XTElite systems. **DO NOT** run this version if the Dashboard and XTUpgrade are not also V2.17.01.0

2.16.10.6

45788:170772 Selective FP upload removes fingers on Sagem Engine
The development of the selective finger uploads in the CI is done by a delete of fingerprints on all terminals and then an insert to only the terminals where the mst_sq has access. This procedure caused an exception in the Sagem Engine and the deletes where going through but not the inserts. The code has been corrected.

2.16.10.5

41583:169069 Secugen finger removed when Sigma Lite template is deleted
The controller interface has only needed to handle Sagem (FG_DB 0) and Secugen (FG_DB 10) type finger templates. With the inclusion of the new Sigma Lite template (which is stored as FG_DB 1) the Controller Interface erroneously removed fingers from controllers that were not = FG_DB 0 when a Sigma Lite template was deleted. This caused the Secugen templates to be removed from the controllers. Only a full upload would restore the templates to the controllers again.

This would only affect sites that are running both Secugen and Sagem technologies.

2.16.10.4

41583: Version change only for patch release

2.16.10.3

41583: Added semicolon to CTEs for MSSQL 2008
Some of the queries used in the CI on databases running on SQL 2008 and earlier (not R2) were not compatible and caused some updates not to be sent to the controllers.

2.16.10.0

44040: Parade Categories
Parade categories which functions the same as denied certificate categories have been added. Ensure to have V7.34 controller firmware and V2.16.10.0 XTUpgrade running. Get Upgrade queries must be run to add the categories to the event types.

43872:162278 Semaphore error in the log file
Some queries were not checking for database connection before running. This is now done on all queries.

43311: Selective upload fix on temporary access and housekeeping
With the implementation of the selective uploads, temporary access groups assigned were not sent to the controllers. This has been rectified. We have also added housekeeping which runs at midnight and cleans out all discharged employee fingerprints older than 5 days.

2.16.06.5

43254: Sagem fingerprint uploads on multiple servers
There was a problem with uploading Sagem fingerprints to an EABR when the terminals were set up on a second or higher server. The query was using the controller id instead of the code id and was not finding the terminal. This was not an issue if only one server was configured with many engines and controllers.

2.16.06.4

Patch release version alignment

2.16.06.3

42739:157309 Suspended after breathaliser request allows retest
If a person failed a breathalyser test, his tag was suspended. However, if he returned to the same terminal he could retest and was allowed access if he passed the test. The last transaction field was not being updated on a breathaliser fail or timeout. This has been fixed.

2.16.06.2

31684:157702 Selective Fingerprint Uploads excluding configuration
Selective finger uploads have been implemented in this release. This means that only fingers of tagholders that have access to a clockpoint will be sent to the reader. This access is through the paycat, the department, the gang, the work location via inheritance and manual additions on the employee record. Once the controller interface has been loaded, all controllers need a full upload in order to activate this feature. If the controller interface is rolled back for some reason, all controllers will have to be reloaded again. There are no visible changes, all the development is in the controller interface and database.

IMPORTANT: This was phase 1 and does not take terminal and clockpoint changes into account. So if you change a terminals clockpoint or terminals to controllers full uploads must be done to the readers. If clockpoints are added or removed in access groups, this will update on the readers.

2.16.06.1

42612:156795 Increase days in cycle to accommodate 366 shifts
A shift cycle with 366 shifts will be accommodated in the controller interface and on the controller. It is imperative to use firmware V7.27 with this controller interface for this feature.

2.16.06.0

42504:156189 Equipment Testing Expansion
We have added a new configurable time period for how long a passed test will be valid before that equipment needs to be tested again. This period will be allocated per equipment type. New parameter to remove the equipment passed flag upon exit on the clock point configured for equipment checking regardless of the test passed expiry duration.

30947:154940 Cater for 255 shifts in a cycle
The controller interface would get stuck if a shift cycle was loaded with more than 255 days. It now processes up to 255 days and ignores the rest and normal operation continues.

2.16.04.2

30794:107971 Motorola Workabout Hand Held Terminal
Controller Interface changes to accommodate the new handheld terminal

40412: Ignore Leave Blocking per WL & Emp access screen
Merged from 2.16.01.10 – The leave validation has been added to the work location and employee settings screens.

40410: Checkpoint and checkpoint validate on clockpoints

Merged from 2.16.01.10 – development for forcing a tagholder to clock at a configured point before he | she is allowed through a second point.

2.16.04.0

41085:149943 Optimisations
- Change cache history from 1 to 3 days back & send earliest update on old requests
- Clear cache after midnight

40829:148921 Batch status entries
A controller server cache will run if there is only 1 company, server and engine.
In the case of multiple engines, the cache runs per engine and not on the server level.   We therefore remove cache from controller server updates prep for multiple engines.

40829:150059 Pin Validation terminal setting
We have used the *CODES | CONFIGURATION | SYSTEM PARAMETERS | EMPLOYEE |* Employee Pin Validation and the *CODES | CONFIGURATION | SYSTEM PARAMETERS | GENERAL |* Visitor Pin Validation to control the Pin validation selection on the terminal. This allows for visitors and employees to be configured differently.

So if the system param for employees pin validation is on and the terminal param is set to Pin validation, the employees | contractors will be required to enter a pin and password (where no fingerprints are loaded) or swipe a tag and enter a password. If either one or both of the properties are not enabled, the employee | contractor will be able to gain access with a tag only.

Likewise if the visitor pin validation system param is checked and the terminal param is set to Pin validation, the visitors will be required to enter a pin and password (where no fingerprints are loaded) or swipe a tag and enter a password. If either one or both of the properties are not enabled, the visitor will be able to gain access with a tag only.

2.16.01.9
Patch Release Version Alignment AAC

2.16.01.2
uControllerServerCommonDb - BuildEmpName Range Check error

2.16.01.1
BuildEmpOverrideSettings Range Check error
uControllerUploader - Moved creation of fdbRead to thread execute instead of on create

2.16.01.0
38566:141595 Ignore shift, level and APB by Work Location
38428:141091 Thread split improvements
35902:142947 Pin Development

2.15.10.13
Version alignment only

2.15.10.12
Version alignment only

2.15.10.9
38916: Add in connection check on each DB query

We now check for a DB connection on each query to the database to prevent the Interface from not being able to recover from a down network.

2.15.10.8
Version alignment only

2.15.10.7
37738:136996 Parades by Work Location
Parades can now be done on certain work locations at specified work locations.

2.15.10.6
38345:137393 Equipment Override Function Badge (GA505)
A new function has been added to the Override tag called equipment. This will override ANY equipment validations in XTime.

2.15.10.5 – Patch Release
36444:129140 Added table prefix to order by on Equipment lights query (SQL2008R2)
There was an ambiguous column name in the query on the Equipment lights table that SQL2012 resolves on its own. SQL2008 require the prefix.

2.15.10.4
38043:136715 Semaphore error in CI cache
When the network is lost, the cache is unable to terminate the threads correctly and is then unable to recover its connection.

2.15.10.3 – Patch Release
37782:135789 Non-socket TCP errors between Dash and CI, Batch & Sagem Engine Services
Disconnecting the dashboard caused a connection error on the services that display through the dashboard.

V2.15.10.2
37386: Add IPs of TCP/IP terminals to display on dashboard
Ensure that GUQ V2.15.10.2 has run to insert the TERM_IP column in the terminal table. When running V2.15.10.2 of the Dashboard or above, ensure to run the Controller Interface V2.15.10.2 or above as well as controller firmware version V7.09 in order for the TCP | IP terminal IP addresses to display.

V2.15.10.1
37881: Non-socket error causing cache freeze
This was an exception in the controller interface that made the dashboard look like it was freezing. This has been fixed in v2.15.10.2 of the controller interface.

35290: Equipment Lights validation (GA503)

Equipment lights can now be configured from the XTime frontend when a terminal is set to equipment validate.

34802: 3rd Party Lamp control split for XTime and LMS
This function was split to allow simultaneous use of the LMS and Key control systems.

V2.15.10.0
Version alignment only

V2.15.08.2 – Patch
36028:127577 empovertime bug on full upload
Employee overtime dates in the future were not handled correctly causing employees to be denied access.

V2.15.08.1 - Patch
Client disconnect error in uICSTcpServer. When the dashboard was shutdown, sometimes the thread from the CI did not close down which resulted in the next startup of the dashboard to show the controllers in an unknown state. This was also causing an untrapped violation.

V2.15.08.0 - August patch release
Version change

V2.15.07.10 – Tester Patch
36375: Added performance traces in save clocktran processing

V2.15.07.9 – Tester Patch
36375: More FastMM compile options for multi-threading

V2.15.07.8 – Tester Patch
36375: FastMM compile options for multi-threading & save clock use own query instance

V2.15.07.7 – Tester Patch
36375: Send reset and upload times with controller status

V2.15.07.6 – Tester Patch
36375: Fixed controller offline check to send dashboard message only when status changed

V2.15.07.5
36375: Modified the data update process to send dashboard message once per second

V2.15.07.4
36375: Fixed Access Violation in TIcsTCPServer.Send in unit uIcsTCPServer.pas
36375: Fixed access Violation in TServerMsgPumpThread.Execute in unit uIcsTCPServer
36375: Queries in SaveClockTran in unit uControllerServerCommonDB changed to single add

V2.15.07.3
36375: Invalid Pointer operation and SQL Connection property required for this operation in uServiceStatus.pas

V2.15.07.2
36375: Fixed Access Violation on uICSTcpServer - added IsDestroying check
36375: Fixed Access Violation on HouseKeepControllerDbgFiles in unit uControllerServerEngineProcessor.pas

V2.15.07.1
36375: Range check error on Con_ID 0 & ReqSeq updates for Firmware V7 up

V2.15.07.0 – Major Release
30947: Message filtering

V2.15.04.2
31688: ImproBio technology controller and EABR reader

V2.15.04.1
34206: Do not send fingers to non-biometric controllers
34206: MST_LASTTRAN future date check on MASTER table (GA502)
34730: Breathalyzer request flag and last_tran update on MASTER table fixed (GA502)
34924: MST_LASTTRAN future date check on MASTER table (GA502)
34481: 100% CPU usage (GA501)

V2.15.04.0
34418: Changed pin validation from boolean to 3 options (Temp/Pin&Pass/Disabled)
33938: Terminal status update where database was not updated if the status column had a null value
27824: Added work location access and time recording group tables

V2.15.01.2
33639: Added last update and last reset timestamp code for display on the dashboard

V2.15.01.1
32927: Interface not responding
30947: Added a port for virtual reader on full upload

V2.15.01.0
VERSION CONVENTION CHANGE ONLY

V2.14.12.4
32927: CONTROLLER INTERFACE FREEZE
Changed full upload method on simultaneous uploads

V2.14.12.3
32722: Finger on Card
Custom development to cater for big databases where not all fingerprints can be sent to the terminals due to memory limitations

V2.14.12.2
Batch status sequence number lengthened

V2.14.12.1
Halved the amount of update requests sent to Dashboard

V1.2014.12.7

More debug for freeze ww - remove sleep at end of main loop

V1.2014.12.1

More Debug for freeze ww
Debug for freeze ww

V1.2014.12.0

Skip finger updates for non-finger controllers
Moved Sagem & Ipulse fingerprint flag to EmpSettings1 on tagholder data update

V1.2014.09.0

INITIAL VERSION

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