Release Notes



IMPORTANT NOTES

Customers Upgrading From a version prior to 18.0 should read about the changes to the "Review" event log in.

Click Here to find out more.



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nteari INTEGRATED SOLUTIONS

Bug-Fix Release (v 21.1.1)

BUG-FIX RELEASE (V 21.1.1)

October 2021 - 21.1.1

Issues Resolved

- Schindler Lift HLI: Resolved issue preventing the Schindler Lift Integration from working on older versions of the Schindler software (v1.2 or earlier). When integrating to Schindler v1.2, set the 'Schindler Version' property of the Schindler Communication Handler to 'v1.2 or older'.
- Controller Creation: Resolved issue that could result in not being able to create Controllers when logged in . as an Operator using the default Operator Type.
- Item History: Resolved issue that could prevent closing the item history dialog without selecting an audit row first for some item types.
- **Operator Type Editor:** Resolved issue resulting in several properties of Operator Types not being editable.
- Lift Access Granted Review: Lift Access Granted Review Records are now correctly associated with the Lift Car the access was granted at rather than a potentially incorrect Lift Floor.
- Entity List: Removed duplicate columns from several entity lists
- User List: Filtering on a User's Primary Permission Group in the auto-filter row now works with partial • matches using a string contains, rather than requiring an exact match.



VERSION 21.1

July 2021 - 21.1

Improved Web Interface

Integriti's web interface has been redesigned from the ground up, providing a more usable and modern interface. The improved web interface retains the existing functionality from the previous web interface, with a number of general improvements and a completely redesigned interface.

Login	into Integriti	
•	User Name	
Ê	Password	Ø
10.000	s: 127.0.0.1 Corporate Edition - Server	Version: 21.1.0.18025

©2021 Integriti by Inner Range

Upgrading systems with existing web interface configurations will automatically be migrated to the improved web interface with no additional configuration being required. Clients will be able to access the new web interface from the same URL and with the same login details as those used for the old web interface.

= 1	integriti lli					\$ *	
ф	Default Site 👻 🝸 🏹	Users		User: Installer			×
±	Users		- I	8 1			Filter Q
G	System Configuration	Search Q =+ =		Properties Credentials Permissions			
2	Permission Groups	ID Name Notes Last Modified	Ŀŀ	Properties Credentials Permissions			
	Area Lists	U1 🖍 Installer 7/13/2021, 9:27:29 Al	4	Photo		User Options	~
E	Door Lists	U2 🖋 Master 7/13/2021, 9:27:29 AM	4	Filolo		Installer Lockout	~
4	Time Periods			First Name(s)	(i)	Tenancy	~
1	Holidays			Installer	U	Configuration	~
5	Review		"	Second Name	i		
Ο	Status / Control						
Ē	Scheduled Tasks			Name Installer			
	Named Actions			Site	-		
	Controllers			Default Site	Q		
	Areas						
	Area Lists			ID U1	í		
+	 Inputs 						
G	Doors			Notes			
G	Door Lists						
-	Auxiliaries	4					
∃	Logout	Records per page: 50 v 1-2 of 2			11		
_			-	Created	_		
Integriti -	- Corporate Edition - Server Version: 21.1	.0.18025				Logged in As Installer (C	Connected To 127.0.0.1)



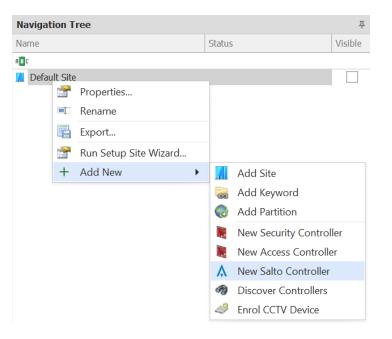
All previous configuration options are still available for configuring the improved web interface. In addition to existing configuration options, it is now possible to optionally configure a prefix for the web interface. This allows the URL used to navigate to the web interface to be configured, allowing multiple services to run on the same port (with different prefixes).

👯 Communication Handler: Web Interface	-	
: 🔄 🔹 📥 🛛 🔹 1 of 1 Items	🕨 🔰 🕂 🗙 🔩 🔊 Show Item History 🖒 Crestart Communication Handler	
Site	Handler Settings	
M Default Site ····	Handler Type: Web Interface	-
Name		
Web Interface		Q
Run Mode	✓ Basic Configuration	
Automatically Run on Any Single Server 🔹	Port Number 80	
Last Changed By	Custom Path /web	
Installer	Use HTTPS	
Created Modified	> Security Configuration	
13/07/2021 - 13/07/2021 -		
Notes	•	
	Basic Configuration	
		<u>^</u>
·		-

Licensing requirements for the improved web interface haven't changed from the existing web interface, still requiring Integriti Business or Corporate edition and at least one available client seat per web interface connection.

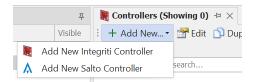
Third Party Doors

Integriti's architecture for integrating to 3rd party door systems has been completely redesigned to make doors from external systems fully built into the Integriti software. This makes configuration of all doors in the Integriti system follow the same flow, regardless of whether they are using Integriti or 3rd party hardware.





As with Integriti Doors, 3rd Party Doors can be created by adding a 3rd Party Controller (each individual integration has its own controller type), associating that 3rd Party Controller with an Integrated System tied to a 3rd party door system, then creating doors in that controller. All Doors created in a 3rd party controller will automatically be created as 3rd Party Doors for the system the 3rd Party Controller is referencing. This will create a Door in Integriti with properties directly mapped to the properties in the external system. This ensures that all properties shown will always be relevant to the 3rd party door system being used. With a 3rd party door integration correctly configured, doors will be automatically synchronised to the linked 3rd party door system as soon as they are added or changed in Integriti.



The updated 3rd Party Doors interface allows significant simplification of synchronising doors to 3rd party systems, with the only requirement being to create a door in a 3rd Party Controller. There is no longer a need to explicitly mark doors, door lists or any other Integriti objects as external doors by specifying a value in a custom field as on previous versions of Integriti. Integriti will now automatically determine which objects are relevant to the external system based on their association with a 3rd Party Door tied to the system (e.g. putting a 3rd Party Door in a Door List will result in that Door List being automatically synchronised to the 3rd party system containing all 3rd Party Doors in the Door List).

Site	Door Programming Adv	vanced	
Controller ID A Salto Controller × ···· D1 Name Door 1 Last Changed By	Outside Location Area	Inside	x x
Created Modified 13/07/2021			

Each 3rd Party Controller type will automatically show up in the list of Controller types that can be created (both in the Navigation Tree and in the Controller List) based on the 3rd party door plugins currently installed on the Integriti system (must be installed on both the server and on the client). Systems with no 3rd party door integrations installed will only have the option to create Integriti Controllers, while systems using 3rd party door integrations will have the associated Controller type for the integration appear as an option to create.

Configuration of Integriti Doors has not been changed in this update, with the same process being in place for creating and editing Integriti Doors. That being said, the configuration properties of all Doors are now stored in a separate table in the database. This means configuration of objects such as Filters, Display Themes, etc will now require specifying door configuration properties via the Configuration property of the door. All existing configurations will continue to function as expected, however new configurations must use the new Configuration property to reference door configuration properties.



Licensing of 3rd party doors has not changed with the upgraded 3rd party doors interface. A system must have a 3rd Party Door license for each 3rd party door configured in the system. Unlicensed doors will not be synchronised to the 3rd party system. Integriti doors are still licensed separately through the Integriti Door license.

Currently the only 3rd party door integration that is supported is Salto. Note that the Salto v2.0 integration is required in order to use the new 3rd party door interface. Older versions of the Salto integration will continue to work on the new versions of Integriti, however Doors must be configured as on previous versions of Integriti until the integration is updated. As described above, Salto doors can be created by configuring a Salto Controller and creating Doors in that Controller. Once configured, Salto Entities will automatically be synchronised to the configured Salto server. See the Salto integration manual for more details on configuring the Salto integration.

Site Default Site		r Programming Advanced			
Controller ID A Salto Controller X ··· D1		Z↓		(Q
Name		Options			
		Requires Operator Confirmation	n		
Door 1	~	Configuration			
Last Changed By		✓ Config	Edit Door Configuration		
		Open Mode	Standard		Ŧ
Created Modified		Enable Antipassback			
13/07/2021 • 13/07/2021 •		Salto External ID			
Notes		Inside Area		×	
A		Outside Area		×	
		Inside Location		×	
		Outside Location		×	
		Door Unlock Time	00 hours 00 mins 00 secs		÷
		Disability Unlock Time	00 hours 00 mins 00 secs		÷
		Free Access		×	

Upgrading Integriti systems using the existing Salto integration can continue using the previous version of the Salto integration (<v2.0) on new versions of Integriti, however the integration will continue to function the same as on previous versions of Integriti and will not use the upgraded 3rd party doors interface. After upgrading the Salto integration to v2.0 or higher, the configuration of the integration can stay the same, however it will be necessary to manually import the Salto configuration back into Integriti in the new format. This can be achieved by performing an 'Import Doors', then an 'Import Users' command on the Integrated System through the Invoke Command mechanism. This will automatically pull door and user configuration from Salto into Integriti and create the relevant Salto Controller and Salto Doors, and ensure permissions are correct for all Users in the Salto system.

OAuth Authentication Module

Integriti's new Operator authentication module provides an additional mechanism for authenticating Operators logging into the Integriti system, in addition to the existing built-in and Active Directory authentication modules. Similar to the Active Directory authentication module, the OAuth authentication module allows authentication of Operators through a central external system, allowing credential management to be centralised across multiple separate systems. This both reduces ongoing Integriti configurations, and simplifies the login process for Operators, allowing them to use the same password for all systems authenticating against the OAuth system. Operator credentials are both stored and managed in the external OAuth system, with changes made to Operator passwords in the OAuth system being automatically applied for Integriti logins.



Version 21.1

🍠 Log On to Integriti		× 21.1.0.18018
		ogin Credentials
	User Name Password	User1
	Integriti Server Server	localhost ~ Port 44000
<u>,</u> 		Login Cancel

The OAuth authentication module adds support for authenticating against any OAuth comapatible authentication system that supports the 'Password' grant type. The authentication module has been explicitly tested against both Microsoft Azure Enterprise and Okta, however any OAuth system that supports the OAuth Password grant type should be supported.

OAuth authentication can be configured by Allowing OAuth Authentication and entering the configuration of the OAuth system into the Integriti system's System Settings.

ۆ¢ 5	ystem Settings	×
		Q
	Built-In Authentication Active Directory Authentication	
	OAuth Authentication	
	Allow OAuth Authentication	
	OAuth Issuer	
	OAuth Client ID (Audience)	
	OAuth Client Secret	

Once enabled, Operators must be created and configured for each OAuth user to log into the system. OAuth operators should have their Authentication Mode set to OAuth, and their Username set to the Operator's username from the OAuth system. Once configured, the Operator is able to log into Integriti through the Integriti login dialog using the current username and password from the OAuth system.

Poperator:	_		×
💾 - 🔦 🔤 🖣	1 of 1 Items 🕨 🕨 + 🗙 🔩 📮 🔊 Show Item History		
User Details			
Name	User1		
Authentication Mode	OAuth/Open ID Connect		-
User Name	User1		
Operator Type	Contractor	×	••••



Improvements

- Schematics: Improved mouse action functionality on Schematic elements to support mouse up/mouse down and repeated mouse actions as well as the existing single-click actions.
 - Single-Click Actions: The specified action is executed after clicking on the element.

Actions/Comm	ands				\times	
Require Validation						
Require Operator Credentials						
Additional Commands Mouse Actions						
Mouse Action Mode Single Click Action -						
Single-Click Action						
Element Pro	Linked	Item/s	Actions	/Cor	n	

Mouse Up/Mouse Down Actions: Separate actions can be configured for when the mouse is
pressed and when it is released. The mouse down action will be executed when the mouse is
pressed on the element, and the mouse up action will be executed when the mouse is released.
This allows for 2 separate actions to be configured for a single click on an element, with it being
possible to hold the mouse down to delay execution of the mouse up action.

It is also possible to only configure one of the mouse up/mouse down actions, allowing for an action to only be executed when the mouse is either pressed or released.

Actions/Commands		\times
Require Validation Require Operator Credentials		
Additional Commands Mouse Actions		
Mouse Action Mode Mouse Up/Down Action	ı	•
Mouse Down Action		•
Mouse Up Action		•
Element Proper Linked Item/s Actions/Co	omn	ıa

 Repeated Mouse Actions: Repeated mouse actions function the same as Mouse Up/Mouse Down actions, with the key difference being that the mouse down action will be repeated at the frequency specified in 'Repeat Frequency' until the mouse is released (and the mouse up action is optionally executed).

This allows for an action to be executed for the duration of the mouse being down, with the action stopping once the mouse is released. This can be configured as a timed controller action that will be retriggered (extending the action end time) until the mouse is released. If the connection to the server is lost while executing the action, this configuration will allow for the action to automatically stop after the configured time in the controller action.

Actions/Commands	
Require Validation	
Require Operator Cr	edentials
Additional Commands	Mouse Actions
Mouse Action Mode	Repeated Click Action 🔹
Mouse Down Action	•
Repeat Frequency (s)	0 ‡
Mouse Up Action	
Element Proper Lin	ked Item/s Actions/Comma

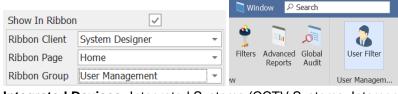
• **DB Filters:** Filters can now be configured to be shown in the System Designer or GateKeeper ribbon. This allows for pre-defined filters to be made more accessible to users, with direct access to the filtered list being available from the ribbon. This is supported by all types of filters and is enabled from the editor

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Version 21.1

for the filter (see below).



• Integrated Devices: Integrated Systems (CCTV Systems, Intercom Systems, etc) are now all accessed from the same ribbon button from System Designer and GateKeeper to allow configuration of all Integrated Systems from the same place.



• Integrated Devices: Integrated Devices can now be added directly from the Integrated Device List using the Add New button. For systems with only one integration of that type installed an Integrated Device will be automatically created for that integration. For systems with multiple integrations for a type installed, the desired integration can be selected from the dropdown that appears after selecting the Add New button.

Integrated Devices can still be added through the New Integrated Device button on the ribbon for all integration types, allowing adding of Integrated Devices by integration rather than by Integrated Device. NOTE: Integrations will only show up in the list of Add New options if installed on both the client and the server.

		푸	Ļ	😫 Integra	ted Sys	tem <mark>(S</mark> ho	wing 1) 🕫 🕽	\times
Status		Visible	:	+ Add	New •	🚰 Edit	ウ Duplicat	e
	Add New Axis CCTV S	ystem				Name		De
	Add New Hikvision Co	CTV Syste	m			ype here	to search 🤉	Ту
~	Add New Milestone C	CTV Syst	em			alto Third	Party System	Th

- Integrated Devices: Added support for duplicating Integrated Devices from the Integrated Device lists. This allows an existing Integrated Device's configuration to be used as a base point when configuring new Integrated Devices.
- Integrated Device: The Unlock Door command will now work on all Integrated Device Endpoints (Cameras, KeyLockers, etc) as well as Intercom Points. This allows all Doors associated with an Integrated Device to be unlocked directly from the device's context menu.
- Integrated Device: Added support for customizing the name of Integrated Devices in Integriti without the overridden names being trampled when refreshing the device from the external system. Refreshing the device will keep track of the name from the external system, but will only update the name of the device if a custom name isn't being used. This allows full customization of the name of devices in Integriti, while providing the option to reset the name to the default value from the 3rd party system from the integrated device editor if required.

Site	
Default Site	•••
Parent System	
CCTV System	•••
Name	
Camera 1	Θ

• Integrated Devices: When creating Integrated Devices with connections directly to the endpoint (Cameras, Intercom Points, etc) a parent Integrated System will be automatically created for the new device. This allows common settings, such as the event monitoring options, to be configured from a central point, rather than individually for all endpoints.



• **Integrated Devices:** Newly created Integrated Devices will now be placed into the currently selected site in the Navigation Tree rather than the top-level site, simplifying configuration of Integrated Devices to ensure they are created in the most relevant site.

- **Integrated Devices:** Simplified configuration of which Integration server (32 or 64 bit) the Integrated Device will run on. This is now specified by simply selecting the Associated Server of the Integrated Device. For HA systems, devices will only fall back to servers of the same type as the one specified.
- **CCTV Viewer:** Viewing CCTV footage for devices that don't support playing back archived footage will now result in the playback controls being disabled to make it clear that playback is not supported. If any of the devices being viewed support playback of archived footage, the playback controls will be enabled to allow control of that device.
- **Custom Items:** Added 'Show On Map' command to context menu of Custom Item Instances. This allows Custom Items to be shown on a map either where they are placed on a Schematic Map or via the positions of the Custom Items.
- **Application Theme:** Customisations made to the application's theme no longer require the logged in Operator to have permission to edit Operators for the changes to be persisted between logins. The application theme will be saved on closing the application and reloaded the next time the Operator logs in.
- **Application Theme:** Added the option to specify the default Application Theme for a given Operator Type. This is the application theme that will be used for all Operators of this Type logging into Integriti when they don't have an Application Theme already saved or when customization of the Application Theme is disabled in their Operator Type.
- **Application Theme:** Added support for disabling customization of the Application Theme to Operator Types. Operators of this type will always use the default Application Theme specified in their Operator Type.
- Entity List: The column chooser for entity lists now has a search bar to assist in finding columns to show in the list.

Customization	×
Search for a column	Q
AURM Permanent	
Can toggle Installer Lockout	
Cancel On Card Access	
Cancel On PIN Logon	
Created	

• Entity List: Filters can now be created directly from Entity Lists, pulling the currently applied column filter on the list into a Filter that can be accessed at any point.

🎐 Create Filter

• Entity Lists: Additional columns can now be configured for complex columns in entity lists, allowing additional information that isn't visible from the list by default to be conveniently viewed. Additional columns can be configured system-wide from the 'Extra Columns' property of the System Settings. Extra columns can be added for any type in the system by specifying th Type and Property Name of the property to add. Optionally, the column can be configured as visible by default for new systems, and a

Version 21.1

custom column caption can be given to the column.

Editing Extra Columns	
✓ User.FirstName	₽
	✓ Options
	Target Type 👶 User 👻
	Property FirstName -
	Custom Column Caption
	Visible By Default
+ Add - Remove	Property Select the property to add as an extra column for the selected Itist type.
	ОК

• Area Input List: Added sorting of Area's Inputs list to allow associated Inputs to be sorted by the desired column. Sorting will disable changing the underlying order of the list until the sorting is cleared. This can be achieved by either clicking the 'Clear Sorting' button or using the column's context menu.



- Entity Positions: Added a 'Clear Positions' command to the Entity, Integrated Device, RTLS Asset and Custom Item Instance context menus. This allows positions added to entities (either from Schematics or an RTLS system) to be manually cleared when the position is no longer relevant. This prevents the associated position being used to show the object on schematic maps or for finding associated CCTV Cameras from camera FOVs.
- **Property Selector:** The property selector used for Filters, DBObjects and anywhere else that allows selection of properties has been upgraded to provide a tree of available properties. This allows complex properties that are multiple levels deep to be selected rather than only top-level properties, allowing more complex filters and display themes to be configured.

NOTE: Creating more complex filters may have an impact on system performance. This should be kept in mind when configuring complex filters and display themes.

- **Controller Action Task Action:** Added support for the 'Use Entities From Context' option in Controller Action Task Actions for Lift Actions. This allows Lift Actions to be automatically executed on the Lift or Lift Floor that triggered the action.
- Reports: Added progress updates to loading screen when executing reports.
- Web Browser: Updated the web browser used for showing web pages in Integriti (through Control Workstation Task Actions, Response Plans and Challenge Responses) to use a Chromium based browser rather than an Internet Explorer based browser. This will provide a more modern and reliable browsing experience, as well as providing support for more modern webpages that weren't supported on the previous browser.
- Web Browser: Viewing web pages that require authentication will now show a pop-up allowing credentials to be entered for the page as they are required.
- **DevExpress Localisation:** Added the ability to log all DevExpress strings that require translation to a text file. This allows the strings that are translated as part of the DevExpress localisation process to be limited to only those that are being used by the specific system. This can be enabled by setting the 'CollectDevExpressLocalisationStrings' registry key to true prior to logging into System Designer or GateKeeper.

NOTE: Strings will only be added to the localisation file as they are accessed by Integriti. If using the output of the DevExpress localisation process to determine which strings need to be translated, any strings that are not explicitly viewed in the software while generating the file will not be included in the



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list of strings to localise. To ensure all DevExpress strings are translated, it is recommended to use a full DevExpress translation rather than relying on the output of this feature.

- **HID Cloud Credential:** Updated the default Invitation URL for new HID Cloud Credential Communication Handlers to the default invitation URL for the HID Origo portal. This will only be applied for new Communication Handlers, and can optionally be manually modified as required.
- Schindler Lift HLI: Added support for synchronizing the Phone Number/Email and Automatic Destination fields from an Integriti custom field to Schindler. This must be configured in the Schindler HLI settings by specifying the Custom Fields containing this data. Once configured, these fields will be automatically synchronized to the Schindler system.

Issues Resolved

- **Control Workstation Task Action:** Resolved issue resulting in Control Workstation Task Actions with the load layout option configured not correctly executing other aspects of the task action. This could result in actions with this configured not showing the specified cctv cameras and schematics when the action is executing.
- **Mimic Viewer:** Resolved issue that could result in an insufficient client licenses error being shown when connecting from a remote client.
- **CCTV Viewer:** Resolved issue that could result in duplicate video streams being shown in the resultant CCTV viewer when showing associated footage from an Entity or an Alert. This includes the context menu on these items, video shown using the control workstation task action and Alert Response Plans.
- **Response Plans:** Resolved issue that could result in settings from one element on a Response Plan being copied to the newly selected when changing the current selection to an item of the same type.
- **Review List:** Resolved issue that could result in the All Review list not opening when a Review Filter was already open in the layout.
- **Control Workstation Task Action:** No longer require the 'View' permission on Sounds for the 'Play Sound' option in the Control Workstation Task Action to be able to play a sound for an Operator.
- **Control Workstation Task Action:** Resolved issue that could result in the Control Workstation action being executed on all logged in workstations, rather than only for the Operators/Operator Types selected in the action configuration.
- Entity Permissions Report: Resolved potential error resulting in Entity Permissions Reports not successfully executing when a User filter was configured.
- **Partitioned Controller Connection:** Resolved potential error attempting to connect to partitioned Controllers on large systems.
- Show Surrounding Cameras: Fixed potential error shown when attempting to view surrounding cameras for a given camera.
- **Door Controller Syncing:** Resolved potential issue resulting in Doors being synchronising to Controllers without a Door type on systems using a 3rd Party Door Integration.
- Alerts: Resolved issue that could result in Alerts configured with a Hardware Offline Alert Source not honouring the specified site and module filters. This would cause the Alert to be triggered for all Hardware Offline events on the system, rather than only those it was configured to trigger on.
- **Control Workstation Task Action:** Resolved potential issue resulting in the action failing to execute when configured to automatically select the client to show on.



Documentation

- **Guide Operator Authentication Modules:** Added manual describing configuration of Integriti's Operator Authentication Modules. This includes instructions on the use of the built-in and Active Directory authentication modules, as well as the newly added OAuth authentication module.
- Integriti Integrations 3rd Party Doors: Added manual describing configuration of Integriti's 3rd party door integrations. This manual contains details on configuration that is common across all integrations, see the integration specific manual for specific details on configuring that integration.

Auto-Update Requirements

Integriti v21.1 has the following new pre-requisites that must be installed for parts of the software to function correctly. These will be automatically installed by all Integriti v21.1 installers, however will need to be installed manually on each client (if not already present on the system) for systems using the auto-update mechanism to automatically update Integriti client installations. The installers for these pre-requisites can be found in the Integriti installation directory of any PC that has run an Integriti v21.1 installer, or at the links below.

- Microsoft Visual C++ 2019 Redistributable (x86) (vcredist_x86_2019.exe): https://aka.ms/vs/16/release/vc_redist.x86.exe
- Microsoft Visual C++ 2019 Redistributable (x64) (vcredist_x64_2019.exe): https://aka.ms/vs/16/release/vc_redist.x64.exe

Rest/XML Interface

 Door Queries – The configuration options for Doors are now contained in a separate class under the Configuration property of the Door. Queries made on doors should reference configuration properties as Door.Configuration.<Property>. Doors returned from Integriti will also be returned in the new format, with Door configuration properties no longer accessible from the root level of the door in the XML. Existing queries using XML filters will continue to function as previously, however it is recommended to update the format of these queries to reference the new properties.



Bug-Fix Release (v 21.0.2)

BUG-FIX RELEASE (V 21.0.2)

June 2021 - 21.0.2

Improvements

• Kone Access lift HLI: Added support for custom card formats.

Issues Resolved

- Integrations: Resolved issue that could result in Refreshing Child Devices for an Integrated Devices failing in some circumstances.
- Alert Definitions: Resolved issue that could result in the Claim Timeout and Finalise Timeouts not being configurable.
- Send Camera To PTZ Preset Task Action: Resolved issue that could result in the selected Camera being lost after re-opening the Task Action editor.
- **Schematics:** The 'Show on Map' context menu command now works for Alerts and Review generated from an Integration.
- **Muster Point Mobile App:** Resolved potential error connecting new Mobile Devices to Integriti using the Inner Range Muster Point mobile application.
- Schematics: Resolved issue that could result in Commands on elements not successfully executing on Schematics using Fields of View in some circumstances. This includes both context menu commands and single-click actions.



Bug-Fix Release (v 21.0.1)

BUG-FIX RELEASE (V 21.0.1)

May 2021 - 21.0.1

Improvements

• Alerts: Added 'Clear Affected Entities' option to Alert Definitions. Alerts generated by Alert Definitions with this option enabled will only be associated with Entities retrieved from the Alert's latest trigger. Alerts with this configuration will only show the most up to date information from their associations, with the Alert no longer being associated with Entities not in the latest trigger. Showing associated CCTV will only show CCTV related to the latest triggering of the event, and only the latest entity/ies to trigger the Alert will show as having Alerts on a Schematic Map.

Alerts with this option disabled will maintain the existing functionality of keeping the Alert associated with all of the Entities that have triggered it, allowing for all entities associated with the alert from when it was first created to maintain that association. Showing associated CCTV will show footage for all Entities that have triggered the Alert, and all Entities that have previously triggered the Alert will show as having Alerts on Schematic Maps until the Alert is finalized.

- **EkoTek RTLS Integration:** The EkoTek integration will now automatically ensure a User's associated Area/Location is up to date whenever an Alarm is received for that User. This ensures that even when a Location Changed message is missed from EkoTek, any Users with an active alarm will always be marked as being in the correct Area/Location.
- **Schematics:** Improved the time taken to load complex Schematic maps with large numbers of elements placed on them in both the Schematics Viewer and Schematics Editor.
- Infiniti Mimic Viewer: Added support for Infiniti Mimic Viewer.
- **Credential Management:** Attempting to re-activate a previously expired credential through the User editor will now show a notification that the selected credential already has an expiry, with the option to automatically remove the expiry from the credential.
- **Credential Management:** Attempting to set an expiry on a credential through the User editor will now prevent entering a start date that is later than the expiry date.
- **Mimic Viewer:** Added support for automatically playing a sound on a Mimic Viewer client through the use of the Control Workstation Task Action. This can be configured to automatically play a custom sound either at specified times or on an event being received.
- **Mobile Reader:** Activation and de-activation of Mobile Devices in System Designer is now achieved through the context menu of the Mobile Device. This removes the need to open the editor to change the state to the desired value, simplifying the Mobile Device enrolment process.
- License Manager: Added details on the license usage for Mobile Reader Device and 3rd Party Door licenses. This allows the number of available licenses for these licenses to be easily viewed directly from the License Manager.
- Evidence Vault: Evidence Items can now be accessed from GateKeeper. This allows a list of current Evidence Items' configuration and associations to be viewed, and the associated evidence to be opened directly from GateKeeper.
- **Control Workstation Task Action:** Showing video in the default viewer using a Control Workstation Task Action will now always result in only video streams from the cameras specified by the Control Workstation Task Action being shown in the viewer. This ensures that only relevant footage is shown, rather than including extra video streams from additional cameras that were already showing in the CCTV viewer.

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Issues Resolved

- Filters: Resolved issue resulting in changes made to the columns of entity lists shown when viewing a filter not being saved. Changes made to these columns will now be saved for the specific filter being viewed, allowing individual customisation of columns on a per-filter basis.
- **RTLS:** Review generated for Location Changes from RTLS systems now shows the associated Area/Location's name rather than address in the Review's text.
- **Controller Action Task Action:** The Set User Area Controller Action now supports automatically selecting the User or Area/Location to use for the action based on the context of the trigger through the 'Get Entities From Context' option. This allows for much more flexible actions to be configured, automatically selecting the relevant Entity rather than requiring manual configuration of each Entity in the action.
- **Custom Item Changed Trigger:** Resolved issue resulting in the Custom Item Changed trigger's filter not showing the correct properties for the configured Custom Items.
- Intercom Integrations: Resolved issue resulting in the 'Unlock Associated Door' and 'Lock Associated Door' context menu commands for Intercom Points not working.
- Integration Persisted Connection: Selecting a Persisted Connection Run Mode of 'Simultaneously Maintain Connection on All Servers' will now only run the persisted connection on one of the 32 or 64 bit servers rather than on both. This ensures the persisted connection is not unnecessarily running on multiple servers on the same PC, and instead will only run an all HA servers of the configured processor type (32 or 64 bit).
- Integration Persisted Connection (HA): Refreshing Child Devices or Refreshing Device on an Integrated Device with a Persisted Connection Run Mode of 'Simultaneously Maintain Connection on All Servers' will now restart the persisted connection on all servers the persisted connection is running on, rather than only the server the Refresh Child Devices/Refresh Device command is executed on.
- License Manager: Integriti Door license usage no longer includes configured 3rd Party Doors. This ensures that the license usage now correctly shows the total number of remaining Integriti Door licenses for systems using 3rd Party Doors.
- **REST XML Interface:** Resolved issue that could result in the results of Review queries not being sorted correctly.



VERSION 21.0

March 2021 - 21.0

Two-Factor Authentication (2FA) Login

Integriti now supports 2FA for additional security on operator login, requiring the operator to enter an additional time-based six-digit code from their smartphone or personal device. Operators can also generate an emergency backup code to login with in the event that they have lost access to their personal device.

- 2FA login is supported for System Designer, Gatekeeper, and the Integriti web interface, and is compatible with Active Directory Integration & SSO.
- To enable 2FA login, tick the "Configuration -> Enable Two-Factor Authentication Login" checkbox in System Settings. Operators can be enrolled for 2FA individually from the Operator Edit dialog.
- 2FA can be enforced for certain operators by enabling the "Enforce Two-Factor Authentication" option in their Security Policy. Affected operators will be prompted to register for 2FA the next time they log into Integriti if they are not already registered.

Two-Factor Authentication (2FA)	
2FA Status:	Not Enrolled
Enrol	Remove Enrolment
Generate B	Jackup Code

For more detailed information on how to configure 2FA operator login, see the 'Guide - Two Factor Authentication' configuration guide.

Schematics

Dockable Property Windows

The Schematics editor's property windows are now able to be docked in any position on the screen. This allows full customisation of the key aspects of the Schematics editor UI, including which panels are visible, tabbed or auto-hiding. Panels can either be docked to any side of the Schematics editor or as floating panels, able to be placed anywhere on the screen.

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Element Properties				푸	×	
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	*					
Element Properties	Linked Item/s	Actions/Command	s			



The layout of the editor's property windows will automatically be saved upon closing the Schematics editor, and will be restored automatically when the Schematics editor is opened.

The following property windows now support docking in the Schematic editor:

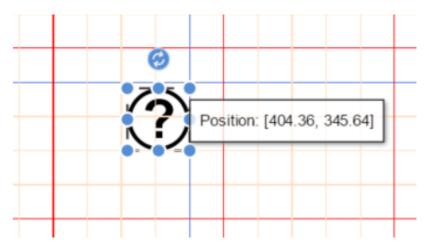
- Element List
- Element Properties
- Element Linked Items
- Element Actions and Commands
- Map Properties
- Layers List

Grid Overlay

The Schematics editor's Grid Overlay now supports customisation of the lines on the grid, including Major Grid Lines, Minor Grid Lines and the Snap/Selection Line. Existing functionality, including customising the Width and Height of each Grid Block remains the same.

To assist with positioning elements, Snap to Grid can now be enabled along with the grid overlay. This allows for elements to automatically snap to the nearest grid line whenever they are being added or edited. This includes when moving, resizing and rotating elements, as well as modifying control points for line and polygon-based elements.

Along with the above improvements, enabling the grid overlay for a Schematic will now only enable it in the editor, with the viewer no longer showing the grid overlay. This allows the grid overlay to be permanently left on for Schematics that should be edited with a grid overlay, no longer requiring the option to be disabled after finishing editing the Schematic to prevent it appearing in the viewer.



Undo/Redo Functionality

The undo and redo functionality in the Schematics editor has been expanded to cover all changes made in the editor. This includes any changes made to Element, Map or Layer properties in the Schematics editor, as well as any physical changes made to elements (adding, removing, moving, resizing, etc).



Inserting/Editing Schematic Elements

A number of improvements have been made to the Schematics editor's interface for adding and editing elements on a Schematic. These include, but are not limited to:

• Editor Tooltips: When moving, resizing and rotating elements, a tooltip is now shown providing details on the current size, position or rotation of the element, allowing for easier fine-tuned editing.



• Freeform Shapes: New points can now be added to freeform shape elements by simply clicking and dragging the corresponding green control point to the desired location of the new point, it is no longer necessary to hold additional keys or use a context menu to achieve this functionality.



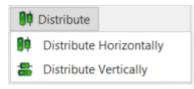
- **Freeform Shapes**: Double clicking when drawing a freeform shape element now adds a final point at the double-click position before completing editing of the shape. The previous behaviour of completing editing at the most recently added point can be achieved by pressing the escape key.
- **Rounded Rectangle Elements**: Rectangle elements can now configured to have rounded corners. This can be configured by setting the 'Rounded Corner' property of a rectangle element to specify the radius of the curve.



• Element Rotation: Elements are now rotated 15 degress at a time by default to assist in keeping element rotation consistent across elements. For more fine-tuned rotation control, the shift key can be held while rotating an element to rotate 1 degree at a time.

Element Distribution

New element distribution options have been added to automatically distribute all selected elements either vertically or horizontally. This will automatically evenly distribute all of the (2 or more) selected elements, ensuring even spacing between each element is even across the specified direction, ignoring grid snapping.





Element Tooltips

Element tooltips in both the editor and viewer have been improved to increase usability, and ensure they don't get in the way of other elements. Tooltips no longer show up immediately, instead waiting until the mouse has hovered over an element for a reasonable amount of time, and will remain at the position they were originally shown rather than following the mouse cursor. Tooltips will automatically disappear once the cursor moves away from the tooltip.

To allow for finer control of tooltips in both the editor and viewer, a new option has been added to allow tooltip visibility to be customised. This provides options for tooltips to be shown for all elements, only the selected element or to not be shown at all.

Show Tooltips Selected Item/... -

Dynamic Size/Visibility

To assist in editing Schematics containing elements with dynamic visibility or dynamic sizing, it is now possible to temporarily disable this functionality in the editor while configuring these elements. This can assist in editing elements where the dynamic sizing or visibility is resulting in an element being obscured or difficult to access.

Dynamic Size:	~	Dynamic Visibility:	\checkmark
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Entity Positions

Entity positions for all elements on a Schematic are now automatically added/updated whenever that Schematic is saved. The 'Auto-Allocate Positions' button has been removed, with the auto-allocate positions functionality being applied without requiring any specific user input. This ensures Entity positions are always kept up to date with changes made in a Schematic, removing the need to manually trigger an update.

Camera Fields of View

The fields of view (FOV) for Integrated Devices placed on Schematics can now be configured directly from the Schematics editor. This allows for the viewport of all cameras placed on Schematics to be visualised directly from the Schematic. FOVs can be viewed from both the Schematics editor and viewer, with FOVs for any currently selected Integrated Device being shown. Optionally, all FOVs can be shown at the same time to allow viewing of the full CCTV coverage for a Schematic, or all FOVs can be manually hidden to ensure all important information remains visible.

FOVs can be added for any element on a Schematic representing an Integrated Device by simply right-clicking on the element and selecting 'Add Fixed FOV' or 'Add PTZ FOV', then choosing from 'Simple FOV' or 'Advanced FOV'.

A **Fixed FOV** represents a single static view for a camera, intended for non-PTZ cameras that only have a single possible FOV. Only a single Fixed FOV is able to be configured per Integrated Device.

A **PTZ FOV** allows the viewport of a specific PTZ Preset on a PTZ enabled Integrated Device to be visualised. Configuring a PTZ Field of View allows for a PTZ Preset ID to be configured for the FOV, which can then be used to automatically send a camera to the specified PTZ Preset when viewing video associated with the PTZ FOV. PTZ FOVs are not limited in the number that can be configured.

Simple FOVs allow for a FOV to be configured as a sector of a circle around the Integrated Device element. The radius and depth of a simple FOV can be configured, however the shape is always the same.

Advanced FOVS allows an FOV to be configured as a freeform shape, allowing full customisation of the area covered by a FOV, including blindspots, walls and any other factors that effect the FOV.



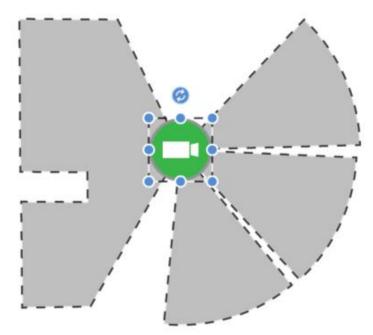
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	Add PTZ Field Of View Properties	•	Add Simple Field Of View Add Advanced Field Of View
		-	
	Add Fixed Field Of View	•	
5	Rotate Element	•	
55	Remove From Layer		
鳽	Add To Layer		
56	Group	- × -	
	Distribute		
	Align	•	
23	Send To Back		
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-	Delete		
21	Paste		
	Сору		
26	Cut	- 1	

Once FOVs are configured for an Integrated Device on a Schematic they will be automatically used to calculate Entities associated with that Integrated Device (See 'Integrated Device Entity Associations-Entity Association Programming' for more details), as well as allow associated Integrated Devices and PTZ Presets to be retrieved for a given point on a Schematic.

FOVs will also be used when showing video from a Schematic. Showing video from the context menu of an Integrated Device's PTZ FOV will automatically send the selected Integrated Device to the PTZ Preset configured in the PTZ FOV, ensuring the Integrated Device is pointing in the correct direction when the video stream is shown.

On top of this, a new option has been added to the context menu when right clicking anywhere on a Schematic to 'Show CCTV at Point'. This option will automatically retrieve all Integrated Devices with a FOV covering the point the context menu was shown at, and show video for all Integrated Devices with a view of that point. For PTZ FOVs covering the selected point, all cameras will also be sent to the PTZ Preset configured in the PTZ FOV.





RTLS Assets

RTLS integrations are now able to create 'RTLS Assets' associated with an RTLS Tag in the RTLS System. RTLS Assets hold the corresponding position data for the RTLS tag, as well as details of the Asset they represent, getting updated by the integration as it receives position changes from the 3rd party system.



RTLS Assets can either be standalone objects representing physical objects (such as equipment trolleys or other physical assets) or associated with a User to represent the position of that User in the RTLS system. When associated with a User, position changes on the RTLS Asset will be passed on to the associated User, ensuring the User always has the correct position based on their associated tag in the RTLS system. RTLS Assets can also be assigned an Asset Type to assist in sorting and filtering Assets. This can either be one of several pre-defined values or a manually entered value.

Position changes on an RTLS Asset will automatically update the associated Area/Location of the RTLS Asset (and the Associated User if there is one) based on the Area/Location the RTLS Asset is physically in, allowing reports, associated CCTV and other features using the associated Area/Location to be used.

Where Fields of View are configured, retrieving associated integrated devices for an RTLS Asset will also retrieve all Integrated Devices with a Field of View covering the current position of the RTLS Asset. This allows Integrated Devices from other Areas/Locations that have a view of the RTLS Asset's current position to be included, and will restrict Integrated Devices retrieved through the Asset/User's Area/Location to only include the Integrated Devices that can physically see the current position of the RTLS Asset, ensuring only the most relevant CCTV streams are shown.

When an Alert is active on an RTLS Asset (triggered from an event from an RTLS integration) or a User associated with an RTLS Asset, the current position of an RTLS Asset can be used to show the current position of the Alert on a corresponding Schematic Map. This allows Users and RTLS Assets to be tracked live in the system whenever there is an Alert associated with them, until the Alert is successfully finalised.

Integrated Device Entity Associations

Entity Association Programming

Programming of Integrated Devices Associated Entities has been simplified to allow associations to be automatically calculated directly from the elements on a Schematic. This uses the physical location of the Integrated Device on the Schematic to automatically associate all of the Areas and Locations a device is within the bounds of with that device. For systems with FOVs configured in their Schematics all Entities located inside of a device's FOVs will be also be recognised as associations for that device. Integrated Device Entity Associations will automatically be added, removed and have their associated PTZ Preset ID updated for all Integrated Devices on a Schematic whenever that Schematic is saved, ensuring associations are always kept up to date.

If finer control of Entity associations is required, associations can be configured from the Entity Associations tab of the Integrated Device editor. Associations configured prior to updating and associations manually added through the Integrated Device editor will not be updated or removed by Schematics, and can only be modified from the Integrated Device Editor.



Associated PTZ Preset

Integrated Device Entity Associations now have the option to specify an associated PTZ Preset ID for that association. This will be used to automatically send the camera to the specified PTZ Preset when showing video from that associated Entity. This allows a system to be configured to automatically move a camera to be facing the Entity triggering an event when showing live CCTV for that event.

For manually configured associations, the associated PTZ Preset ID can be manually entered in the Integrated Device editor's Associated Entities tab. For associations added automatically through Schematics, the associated PTZ Preset IDs will be automatically set to match the PTZ Preset ID of the PTZ FOV the entity is inside of for that Device. Where the Entity association is added due to the Integrated Device being within the bounds of an Area/Location or the associated Entity is inside a fixed FOV for an Integrated Device, no PTZ Preset will be set on the association.

Cameras will be automatically sent to the associated PTZ Preset (where programmed) when viewing live CCTV footage from an association. This includes showing video directly from an Entity, from Review, from Alerts and through the Control Workstation Task Action, as well as anywhere else that shows video from an Integrated Device's associated entities.

Send Camera To PTZ Preset Task Action

For situations where a camera should be automatically sent to a PTZ Preset without showing a live video feed in Integriti, the Send Camera to PTZ Preset Task Action has been added. This can be configured in one of two ways:

- Manual Configuration: Manually specify a Camera and the ID of a PTZ Preset in order to send the selected camera to the specified PTZ Preset when the Task Action is triggered.
- Select From Context: Leave the 'Camera' property blank to automatically select the Camera/s and associated PTZ Preset/s from the context of the triggering event/alert. This option will automatically sends all cameras associated with the Entities that triggered the event/alert to the PTZ Presets configured in the corresponding association/s.

Configure Task Action	_		×
Action Type: Send Camera/s To Ptz Preset			•
21 21			Q
✓ Configuration			
Camera (Optional) Use From Context			× …
Ignore Errors			
Configuration			
	ОК	Ca	ncel



RTLS

For systems using position-based RTLS integrations (that update the x, y, z coordinates of a User or RTLS Asset), finding Integrated Devices associated with the User/RTLS Asset has been significantly improved for systems with FOVs configured in their Schematics, using the FOVs to determine exactly which Integrated Devices have a view of the exact position of the User/RTLS Asset.

On systems with FOVs configured for Integrated Devices retrieving associated Integrated Devices for a User or RTLS Asset will now automatically retrieve all Integrated Devices which have a FOV covering the x, y, z position of the User/RTLS Asset, allowing only relevant Devices to retrieved.

For systems without FOVs configured, or for systems not using Schematics at all, the existing behaviour of using all Integrated Devices associated with the User/RTLS Asset's associated Area/Location will be used. For systems with FOVs only configured on some of their Integrated Devices, the resulting associated Integrated Devices for a User/RTLS Asset will be a combination of all Integrated Devices with a FOV covering the x, y, z position of the User/RTLS Asset, as well as all Integrated Devices inside of the User/RTLS Asset's associated Area/Location without a FOV configured.

This improved functionality will automatically be applied when retrieving associated devices for a User or RTLS Asset, both for showing associated CCTV Footage (e.g. from Review, Alerts, Entity Lists or the Control Workstation Task Action) and when determing associated devices from the context of the triggering event (such as Invoke Integrated Device Command Task Action and Send Camera To PTZ Preset Task Action).

Review Categories

The following Review Categories have been added or modified in this release:

- (Area) Partially Armed
- Xmit Partially Armed
- RTLS Area/Location Change
- RTLS Button Input Change
- RTLS Battery Voltage Change
- RTLS Low Battery Alarm
- RTLS Low Battery Alarm Restore
- RTLS Tag Online
- RTLS Tag Offline
- RTLS Asset Start Movement
- RTLS Asset Stop Movement

Anywhere using a filter on Review Category should be reviewed to ensure these changes won't effect existing filters. Places Review Category filters can be found include:

- Review Filters
- Operator Type Filters
- Scheduled Task Triggers
- Reports
- Saved Layouts



Version 21.0

INTEGRATED SOLUTIONS

Improvements

- Clickatell SMS Sender: Added support for Clickatell's One API. Newly created Clickatell SMS Communication Handlers will be automatically created referencing Clickatell's One API. See the 'Integriti Communications Handlers – Clickatell SMS Sender' manual for details on configuring both Clickatell and Integriti to send SMS' via Clickatell's One API. Upgrading systems will continue using the previous Clickatell API, and will not require any configuration changes to continue working.
- **Integrations:** Added new Integrated Device types to better categorise new integrations. New integrations will automatically be given the correct Integrated Device type, while newly released integrations will be moved to the correct Integrated Device type (where applicable) after a plugin update.
- Send Camera To PTZ Preset: Added new Context Menu command to CCTV Camera to send the Camera to a specified PTZ Preset.

Enter PTZ Preset ID			_		×
1					
	0	ОК	0	Cancel	

- System Designer/GateKeeper Ribbon: Moved buttons for all Integration types into a new Integrations tab in the System Designer and GateKeeper ribbon. In GateKeeper, only Buttons to show lists for each Integrated Device type will be shown in this tab where an integration of that type is currently installed. If no integrations of a specific Integrated Device type are installed, no button will be shown for that type in the Integrations tab on the ribbon.
- **Integrated Devices:** Integrated Devices can now be duplicated from an Integrated Device list to save having to enter similar configurations multiple times for each Integrated Device to be added.
- Invoke Integrated Device Command Task Action: Simplified configuration of the Invoke Integrated Device Command Task Action when using Integrated Devices from context by removing the need to specify a 'Reference Device' for most command types. When configured to load devices from context, for most commands, it is now only necessary to select which plugin should be used to execute the commands, before selecting and configuring the command itself.

Some commands still require a 'Reference Device' to be specified in order to allow specific command details loaded from the 3rd party system to be shown. Selecting a command that requires a Reference Device to be selected will provide a notification indicating this requirement.

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Log Revie	2W				
	ļ			(R
✓ Cor	nmand Details				
	Alarm ID				
	Text				Ŧ
Comm	and Settings	*			

• **Task Actions:** Some Actions (configured in Scheduled Tasks, Alerts, etc.) now have the option to ignore errors occurring while executing the Action. If this option is enabled, the remaining configured Actions will continue to be executed, regardless of whether the Action fails to execute successfully.



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- Log Review Task Action: Added the ability to customise the Category of review generated by the Log Review Task Action. This can be one of 6 categories, allowing for simpler reporting and filtering of generated Review, as well as allowing custom colouring of the generated Review in the Review List to assist in distinguishing between Review generated from different sources.
- Log Review Task Action: Review generated by a Log Review Task Action will now be automatically associated with the Entities and Integrated Devices associated with the triggering event.
- **Personal/System Layouts:** Added the ability to export layouts from the Manage Layouts dialog. Exported Layouts can be imported back into Integriti through the 'Import Data' functionality. Imported layouts wil always be imported as System Layouts.

Manage Layouts – 🗆 🗙						
	Layout Name	Site	Application			
►	Default	Default Site …	System Designer			
>	🗴 Delete Layout 🔄 Factory Reset Layout	Export Layou	ut 🥥	ОК		

- Entity Selection Dialog: Improvements to the behaviour of the Site filter to further assist in filtering the entities to select from by their Site.
- Schindler Card Codec: Added Schindler Card Codec to default Entities. This can be used by creating a new 'Custom Software Codec' Card Format, with their 'Custom Enhancement Codec' referencing the Custom Enhancement 'Schindler Card Codec'.
- License Manager: Added support for entering multiple licenses at once. This allows license keys to be entered directly from the license details email.

Enter License Key						
0	Enter an Integriti License Key below.					
ST			^			
¢ ¢			~			
	<		>			
		OK	Cancel			

• **Cleanup Database Task Action:** Added 'Days To Purge' option to allow the lower bound of the purge to be specified. This should be set to the maximum number of days the purge should occur over in order to improve the performance of the purge.

The purge will cleanup items with a time anywhere between 'Purge Before (Days)' + 'Days To Purge' days before the action is executed and 'Purge Before (Days)' days before the action is executed.

- Filters/Reports: Filters and reports on Users, Doors and Areas are now able to select entity-specific properties from the User, Door and Area states, rather than only having access to the core state properties.
- **Title Bar:** Integriti's window title now contains details of which panel is currently selected in that instance of Integriti.
 - 🭠 Current Site 🚽 🏹 🕅 🕶
- **Icons:** Updated a number of icons across Integriti to improved, higher quality icons.
- **Permissions Report:** Added the option to 'Exclude Inactive Permissions' from a report's results. When enabled, expired and not started permissions will not be included in the report.
- Schematics: Improved drag-drop functionality to support dragging multiple entities from an Entity list onto an empty space on a Schematic Map. This will add all of the dragged entities as separate icons on the Schematic they are dropped onto.



User Associated Area/Location: Changing a User's associated Area or Location will now
automatically update the User's Position to that or the centre-point of the Area/Location. This allows
Alerts associated with a User to be shown in Schematics, even when the current Area/Location isn't
associated with the Alert and an RTLS system isn't being used. All Alerts associated with Users with
positions updated in this way (as opposed to being updated through an RTLS system) will show up at
the centre of the Area the User is currently in.

• **Mobile Reader:** Added support for manually moving Users into the Muster Area directly from the Mobile Reader application. This allows Users to be marked as being in the Muster Area even when they don't have their credentials on them.

NOTE: The manual muster functionality requires an updated version of the Mobile Reader Application to be used.

- **Sample Reports:** Added First Badge of Day sample report to show the first user access and total access events for each day over a 2 month period.
- Integriti CS: Added support for configuring partitioned Controllers in Integriti CS. This can be done by creating a 'New Partitioned System' from the Integriti CS interface and enrolling the Controller into the auto-created Partition.

Issues Resolved

- **Keywords:** Resolved issue resulting in Entities not being added to Keywords when attempting to add from the Navigation Tree. This includes both dragging Entities onto the Keyword in the Navigation Tree and using the Edit Keyword Dialog to add Entities.
- **Controller Enrolment:** Controllers will now be enrolled into the Site specified in the Controller enrolment dialog, rather than always being enrolled into the top level site.
- **CSV Import:** Resolved potential issue that could result in blank Cards being associated with a User after a CSV import in some situations.

Documentation

- **Biometric Integrations:** Added manual describing the configuration and use of Biometric Integrations in Integriti.
- **RTLS Integrations:** Added manual describing the configuration and use of RTLS Integrations in Integriti.
- **Keylocker Integratons:** Improvements to KeyLocker manual to include details on configuring antipassback for Keylocker integrations.
- Integration Manuals: Moved integration manuals to 'doc\Integrations'.
- Schematics Editor: Added new Schematics Editor Manual detailing use of the Integriti's Schematics editor. This supersedes the existing 'Integriti Software Schematics' manual.



Bug-Fix Release (v 20.1.4)

BUG-FIX RELEASE (V 20.1.4)

February 2021 - 20.1.4

Improvements

- Card Review (AURM): AURM requests now support site code card numbers with leading zeros.
- **Door Schedules:** Changes to Door Schedules are now audited.
- HID Mobile Credential: Added support for HID's latest portal to ensure compatibility with newly created HID accounts. This option will be selected by default for new HID Mobile Credential Communication Handlers. Existing Communication Handlers can be updated to use the new portal if required by setting the HID Client Portal Version to 'Origo (2.2) AWS IDP'. NOTE: Upgrading systems connecting to 'Cert' or 'Pre-Production' HID Portal environments will need to verify their HID Mobile Credential Communication Handler configuration after updating, and ensure the 'HID Client Portal Environment' property is set correctly.
- **HID Mobile Credential:** Added the option to manually specify the Invitation Link for systems using Email or SMS senders to send invitations. Upgrading systems will continue to use the previous default Invitation Link.

Issues Resolved

- **Card Review (AURM):** AURM requests no longer incorrectly alter the Review text to say 'Inactive Card'.
- **REST XML Interface:** Added support for self-closing ref elements in XML documents passed to the REST interface.
- **Module Editor Dashboard:** Resolved issue that resulted in changing the selected Controller in the Navigation Tree not updating the Dashboard to display the newly selected Controller when both Controllers were in the same Site.
- **Schematics:** Resolved issue resulting in the Status Text not showing in the status window for the selected element when 'Show Status on Mouse Hover' was disabled for that Schematic Map.
- Licensing: 'Additional Server Node (High Availability/Load Spreading)' now functions as described, with the **original** server not being included in the license count. The required number of licenses should match the total number of additional servers, not the number of servers in total.
- Licensing: Resolved an issue where doors managed by the Salto SHIP integration were incorrectly using Integriti Door licenses instead of 3rd Party Door Licenses. This could result in sites being unable to create more Integriti doors even though there were enough licenses.
- **Review Sender:** Performance improvements using the Review Sender on large systems.
- **Integrations:** Integrations that don't support a persisted connection will now have a state of 'Online' rather than always being marked 'Offline'.
- Keywords: Keywords can now be associated with Entities directly from the Entity editor.
- **Controller Data Sync:** A single Controller with a disconnected Level 5 kit is no longer able to stall data-sync for other Controllers.
- XML/REST Interface: Resolved potential issue querying review using legacy query syntax.



Bug-Fix Release (v 20.1.4)

Documentation

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INTEGRATED SOLUTIONS

- **Biometric Integrations:** Added manual describing the configuration and use of Biometric Integrations in Integriti.
- Mimic View: Updated manual to include details on using additional clients with the Mimic Viewer.
- XML/REST Interface: Added details on Session Management and Authentication to XML/REST Interface documentation.



Bug-Fix Release (v 20.1.3)

BUG-FIX RELEASE (V 20.1.3)

November 2020 - 20.1.3

Issues Resolved

- **CSV Import:** Controller and Site/Partition mappings configured in the CSV mappings will now be used for imported data.
- **CSV Import:** Resolved issue resulting in imported data not being saved into the Navigation Group specified in the CSV Import Settings.
- **Multi-Select Edit:** Resolved issue resulting in some properties not being editable from the multi-select editor.
- Entity Lists: Resolved issue resulting in the Time Since Last Update column not updating correctly in some scenarios.
- **Schematics:** Resolved issue that could result in custom single-click action configurations being lost when updating from v20.0 or earlier.
- **Integrations:** Refreshing Child Devices now creates the child devices in the site of the parent device, rather than in the default site.
- Access Review: Resolved issue that could result in Credentials being incorrectly associated with non-Card (PIN, etc) access review.
- **Review Window:** Resolved potential issue that could result in Review Windows not showing correctly for some Operator Types after updating from v20.0 or earlier.
- **Review:** Resolved potential error writing access review for some Card badges.
- KONE Lift HLI: Lift Access events occurring on the KONE system will now be logged to Review in real time.
- **CCTV Viewer:** Resolved potential issue resulting in video streaming (both live and playback) not showing any footage for some integrations.
- **Guard Tour:** The Skip Guard Tour and Start Guard Tour actions now use the User currently on the Guard Tour triggering the action when triggered from a Guard Tour. This allows steps in the current Guard Tour to be automatically skipped, and new Guard Tours to be automatically started by the User currently on another Guard Tour.
- **Guard Tour:** The Skip Guard Tour and Start Guard Tour actions are now able to automatically use the current Guard Tour Definition when triggered from a Guard Tour. This saves having to manually program the Guard Tour Definition property of the actions when configured in a Guard Tour's actions.

Improvements

- **System/Personal Layouts:** The currently selected site is now automatically saved in the current System/Personal Layout. This will be updated when the Layout is updated, and loaded when the layout is loaded. This replaces the 'Change Current Site' button in GateKeeper.
- **Control Workstation Task Action:** A Muster View can now be selected as one of the Items to Show.



Bug-Fix Release (v 20.1.2)

BUG-FIX RELEASE (V 20.1.2)

October 2020 - 20.1.2

Issues Resolved

- **HID Mobile Credential:** Added support for connecting to Origo HID Mobile Credential accounts using HID's AWS IDP portal.
- **Photo ID Design:** Resolved error that could prevent opening Photo ID Designs containing a QR Code.
- **Layouts:** Resolved potential error loading Personal and System Layouts containing multiple floating windows.
- List Contents Advanced Report: Resolved issue resulting in not being able to change the List Type property of List Contents reports.

Bug-Fix Release (v 20.1.1)

BUG-FIX RELEASE (V 20.1.1)

September 2020 - 20.1.1

Issues Resolved

- Server Heartbeat Timeout: The Server Instance's Heartbeat Timeout can no longer be set to a value that could result in the server incorrectly being marked as offline. Server Heartbeat Timeout will now be automatically updated to a more sensible value if the value entered is too short or too long.
- Credential Last Used Time: The Last Used time for credentials now supports Card Numbers with leading zeros.
- **Credential From Review:** Adding Credentials from a Review Record will now find existing credentials with leading zeros in the Card Number.
- **User Credentials:** Resolved potential error using the Enter Number dialog to add a Credential to a User on systems containing credentials using the 'Hashed Credit Card' Card Format.
- Integration Servers: Improved speed of stopping the integration servers.
- **Upcoming Door Schedules:** Added Free Access Time Period to Upcoming Door Schedules dialogue.
- Entity Lists: Improved default column sizing.
- Filter Editor: Resolved issue that could result in some properties not correctly showing the value editor.
- **System Designer/GateKeeper Startup:** Resolved potential issue resulting in the saved layout not loading correctly when opening System Designer/GateKeeper.
- **CCTV Viewer:** Resolved potential issue resulting in the system locking up when opening multiple video streams in quick successions (e.g. via the Control Workstation Task Action)
- **CCTV Viewer:** Resolved issue resulting in showing video from Alerts generated from Integration Review records not being able to show associated video.



VERSION 20.1

August 2020 - 20.1

CCTV Layouts

CCTV Layouts allow for collections of cameras to be stored, along with the layout of the CCTV viewer, and restored at a later point in time. This allows a view to be brought up as required to show a specific set of cameras in a specific layout. CCTV Layouts can be triggered either manually from a list in System Designer/GateKeeper or automatically through the Control Workstation Task Action.



CCTV Layouts can be created by simply clicking on the CCTV Layout button (pictured above) at the bottom right of the CCTV Viewer and selecting 'Create New CCTV Layout'.

For full details on creating, viewing and updating CCTV Layouts, see the relevant section of the 'Integriti Integrations – CCTV' manual.

CCTV Surrounding Cameras View

The Surrounding Cameras View allows for physical relationships between CCTV Cameras to be configured and displayed in the CCTV Viewer. The Surrounding Cameras View shows the selected camera, as well as the cameras configured to be N, NE, E, SE, S, SW, W and NW of the selected camera, all in a CCTV Viewer. Clicking on one of the associated cameras will adjust the view to show the surrounding cameras of the camera that was clicked on. This allows for an object to be easily tracked across multiple cameras, simply by clicking on the camera stream that the object moves to.

For full details on configuring and using the Surrounding Cameras View, see the relevant section of the 'Integriti Integrations – CCTV' manual.

NEDAP LPR Integration

The NEDAP LPR integration allows for license plates from a NEDAP LPR camera to be configured as Credentials on a User directly from the license plate. Configuration is as simple as creating a NEDAP Card Format, associating it with a Card Template and entering the license plate as a Credential in the User.

Full details on configuring the NEDAP LPR Integration can be found in the 'Integriti Integrations - LPR' manual.



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Contact Trace Report

Quickly and easily find out who a user may have been in contact with over a given time frame.

The contact trace report analyses historical access logs to determine who the "subject" of the report has been in contact with.

Depending on how your access system is set-up, multiple processing options are available, to give the most accurate and useful information possible.

Same Room Detection - "Location Change" records are analysed to determine where people have been, this works best with read-in read-out

Used Same Door Detection - "Access Event" records are analysed to determine when people used the same door within a configurable time.

Review Categories

The following Review Categories have been added or modified in this release:

- Site Code Card (simulated)
- Direct Entry Card (simulated)

Anywhere using a filter on Review Category should be reviewed to ensure these changes won't effect existing filters. Places Review Category filters can be found include:

- **Review Filters**
- **Operator Type Filters** •
- Scheduled Task Triggers
- Reports
- Saved Layouts

Improvements

- CCTV Viewer Digital PTZ: When in Digital PTZ mode while viewing a video stream in the CCTV Viewer, the mouse wheel will now zoom the stream in on the mouse cursor, rather than the top-left corner of the stream.
- **CCTV Export:** When exporting CCTV footage, the file name and Evidence Item comment can now be specified using a format string. This allows for contextual information, such as the export time and the camera name to be easily placed into the resulting file name and/or Evidence Item comment.
- Intercom Call Queue: Added the option to specify whether commands executed from the call queue dialog are run against the Origin or Destination of the selected call queue item. This can be especially useful when attempting to unlock an associated door from the dialog, where now the location of the Door can be selected (either the Origin or Destination of the call). NOTE: Running commands against both the Origin and Destination of a call queue item must be

supported by the Integriti Intercom Integration being used. NOTE: Not all Call Queue Items may contain both an Origin and a Destination device. Where either device is not available, all commands will be performed against whichever device is available.

- User RTLS Position: Review is now logged when a User's Area or Location is changed as a result of their position changing via an RTLS integration. The generated Review is in the same format as the current Area/Location review that is generated when a User's Area or Location changes via Door access, allowing all location changes to be conveniently filtered and reported on.
- Find Entity Form: Added optional site filter when selecting an Entity to assist in finding specific Entities in multi-site systems.





- **Communication Handlers:** Communication Handlers can now be restarted directly from the Communication Handler list by selecting 'Restart Communication Handler' in the context menu.
- **Simulated Card Badge:** Simulated Card Badges can now be simply distinguished from physical Card badges from the associated Review Record through the new 'Simulated' Card Revew Categories. NOTE: This feature requires v20.1 Controller firmware.
- **Card Data Review:** Card Info Review Records now contain additional information about the Card where available. This can include the Site Code, the Credential type and the Card Number.
- Format Strings: Format strings now support default values where no value is found for a specified keyword, rather than leaving the value blank in the resultant format string.
 The default value can be specified by using the following format for the format string token: '{[PropertyName]:|[DefaultValue]]}' or '{[PropertyName]:[FormatSpecifier]|[DefaultValue]]}'.
- Credit User Qualifications: Credit User Qualification triggers now have the option to choose whether
 to increment or decrement the selected Custom Field's value when the trigger is activated. This makes it
 simpler for User Qualifications to be used in situations where access can be temporarily granted or
 denied based on events in Review or from an integration.
 Upgrading systems will automatically be set to decrement, keeping the existing behaviour.
- Integrated Device: Integrated Devices can now have their connection configurations edited in the multiselect editor, allowing the connection configuration to be configured for multiple Integrated Devices at the same time.
- **Review Sender Communication Handler:** Added new Review Search Mode option to allow a lookback period to be specified when sending Review. This allows for the time period over which missed Review will be sent by the Review Sender once it is received to be restricted.
- Entity List: Columns showing Entity Types can now be filtered and sorted in the Entity List.
- X Reference Report: Added support for showing references to Controllers in the X Reference Report.
- User Programming: A User's Tenancy Area can now be set to an Area List containing one Area per Controller. This allows for improved multi-Controller support, allowing specifying a Tenancy Area for each Controller rather than only allowing one.
- User Programming: A User's Default Floor can now be set to an Lift Floor List containing one Lift Floor per Controller. This allows for improved multi-Controller support, allowing specifying a Default Floor for each Controller rather than only allowing one.
- Active Directory User Sync: Member counts for each Active Directory group are now shown in the editor for the Communication Handler when selecting Groups To Monitor to assist in determining which groups contain Users.
- **Control Workstation Task Action:** Intercoms and other Integrated Devices can now be selected to be shown when using an Item Display Mode of 'Use Selected Item/s'.
- CSV Import: Improved behaviour when importing nested items to no longer add blank values when there is no value in the mapped column for the row.
 Where at least one property in a nested mapping is mapped to a column in the CSV, the nested value will only be added if at least one of these mappings has a value in the CSV.
 Constant nested mappings, where all rows of the nested mapping are determined by Constant Value Transforms will always be imported.
- **DB Object Filter:** Filters can now be created to show a filtered list of finalised Alerts, rather than just active Alerts.
- **Operator Permissions:** Added new Operator Permission to prevent Operators with specific Operator Types from viewing Finalised Alerts

Release Notes

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INTEGRATED SOLUTIONS

Issues Resolved

- Schematics: Alerts now honour the Z coordinate of the source of the Alert when showing on Schematics. This prevents Alerts from showing on all Schematics covering the X, Y coordinates the Alert is generated at, and instead only shows on the Schematic at the correct Z coordinate.
- **Schematics:** Resolved issue resulting in mouse hover text being shown for map elements, even when they're obscured by another element.
- Schematics: Resolved issue resulting in Single-Click Actions not working on clients translated to a
 different language to the client they were programmed in.
 NOTE: Single-Click Actions may need to be re-programmed on translated systems.
- **CCTV Playback:** When playing associated CCTV footage from a Review Record, the default playback time is now sent in the timezone of the event, rather than the timezone of the client, to ensure the correct footage is played.

Bug-Fix Release (v 20.0.3)

BUG-FIX RELEASE (V 20.0.3)

July 2020 - 20.0.3

Issues Resolved

- Data-Sync: Improved efficiency of the "Disallow Changes From Controller" data sync mode.
- Data-Sync: Added "Upload Sync Behaviour"options. NOTE: These options can disable parts of the "upload from controller" data synchronisation and result in field controllers being out of sync with the server. Settings other than "Normal" should only be enabled if keypad editing is disabled, and under instruction from Inner Range Support.
- Active Directory User Sync: Added support for nested mapping to be configured with only Constant Value Transformations (and not be mapped to any AD Columns) to allow the same nested value to be given to all synched Users.

Bug-Fix Release (v 20.0.2)

BUG-FIX RELEASE (V 20.0.2)

June 2020 - 20.0.2

Issues Resolved

- CSV Import: Performance improvements when using nested mappings.
- CSV Import String To Entity Mapping Transform: Improved loading time of configuration UI and performance when used in an import.
- **CSV Import Name Lookup Transform:** Site is now selectable in the configuration UI when 'Limit Results To Site' is selected.
- CSV Import Name Lookup Transform: Resolved issue that could result in the 'Cast as Type' value specified not being persisted.
- User Import: Improved performance on large sites when importing Users (Via XML, CSV, REST XML).
- **Review Sender Service:** Improved performance when large numbers of connections are made to the Review Sender service from a third party.
- Dot Net Support: Added support for Dot Net v4.8.0.528372.
- Human Readable Report: Resolved potential error when viewing the Human Readable Report on a Controller.
- **Biometric Integrations:** Resolved issue that could cause the license check to fail when opening a Biometric Integration's Acquire Card dialog.



Bug-Fix Release (v 20.0.1)

BUG-FIX RELEASE (V 20.0.1)

June 2020 - 20.0.1

Issues Resolved

- **Review List:** Fixed issue resulting in several entity commands not working correctly when activated from the Review List's context menu.
- System Designer/GateKeeper Layouts: Fixed issue resulting in sometimes being unable to manually change the current Layout.
- Integriti CS: Resolved issue that could prevent logging into CS systems after transferring them between instances of CS.
- Edit Door: Newly created Doors now have a Door Type by default.
- **Control Workstation Task Action:** Fixed issue that resulted in previously configured Control Workstation Task Actions not being able to show Schematic Maps when triggered.
- **Custom Fields:** Resolved issue that caused large Custom Field text values to not save correctly (> 700 characters). The new limit on Custom Field text values is now approximately 4000 characters.
- Schematic Maps: Fixed error preventing viewing or editing certain Schematic Maps.
- Intercom Call Queue: Fixed issue resulting in Layouts not saving correctly when they contain an Intercom Call Queue window.
- Intercom Call Queue: Fixed issue that could result in some calls not showing up in the Intercom Call Queue.
- Integration Auto Input Restore: Improvements to the behaviour of the Auto option of Auto Input Restore Mode to only restore Inputs when events of types with a corresponding Auto Input Trigger configured are received.
- Integration Persisted Connection: Resolved issue that could prevent multiple Integrated Devices from having persisted connections running simultaneously.
- Ethernet Bridge: Ethernet Bridge firmware can now be updated through System Designer.
- **Communication Handlers:** Fixed issue preventing creation of EkoTek, Schindler and several other types of Communication Handlers.
- **HID Mobile Credential (Origo):** Resolved issue that could result in a connection to the Origo HID Mobile Credential system not being able to be established.
- **Review Triggers:** The 'When' option of Review, Custom Item Changed and Door/Area Triggers now correctly restricts the trigger to only be triggered when the specified Time Period is active.
- **EkoTek RTLS Listener:** Fixed issue that prevented Remote Logs received via the EkoTek Listener Communication Handler from producing Review and saving associated hardware.
- X Reference Report: Fixed potential error that could sometimes prevent running X Reference Reports.
- **Muster View:** Resolved issue that resulted in Users showing up as ungrouped lists in Muster Views, rather than being grouped by the Location they're currently in.
- **SkyTunnel:** Resolved issue that could result in connections to Controllers via SkyTunnel failing in some scenarios.



VERSION 20

March 2020 - 20.0

V20 Licensing Change

A major part of the Integriti V20.0 release involved assessing and evaluating the full Integriti hardware and software licensing model. These changes include new product editions, each including a different set of features, changes to existing licenses and the removal or combining of several existing licenses, among other things.

For the full details on the licensing changes included in Integriti V20.0, see 'Integriti License Change Release Notes.pdf' for a full breakdown of the changes.

Client Connection Licensing

We have simplified and improved how client licensing works.

There are no longer separately priced & counted fixed, floating & web interface licenses, they are all replaced by a single "Client License", which is included as part of the Integriti Product Edition.

All existing sites' fixed / floating / web licenses will be automatically converted to additional client seats, providing additional client connections on top of what is included as part of the Integriti Product Edition.

The functionality that used to be provided by "fixed workstation licenses" is now a core feature, and is covered in the "Reserved seats" section below.

Each "Client License" allows:

- Up to 4 Clients from a single workstation (2x System Designers + 2x Gatekeepers) or
- 2. A single Web Interface session

Additionally, a single local "System Designer" login is ALWAYS permitted from any Activated Server.

Reserved Seats

Client Seats can be reserved (from the License Manager in system designer) for either:

- Workstations (existing fixed workstations)
- Operators

Reserving client seats ensures your most important workstations / operators are always able to access the system.

Reserving a seat for a specific Operator is a new feature with V20.0, allowing that operator to always be able to log in, regardless of the workstation they are at.

Remote Disconnect

Operators with reserved seats will always be able to login with a Gatekeeper or System Designer client from anywhere. Even if they are logged in somewhere else and all seats are taken, the login window will present a list of the operator's existing sessions, so one can be chosen to be closed.

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Version 20



Integrations

- License Plate Recognition: Added option to LPR Card Formats to not badge detected License Plates at the associated Reader if they don't have a matching Card programmed in Integriti.
- **Export CCTV Footage**: Added option to export the 'current frame' when exporting CCTV footage from the video viewer. This will export the frame currently showing in the viewer when the command is invoked.

NOTE: Export Current Frame is not supported by all integrations, and requires a supported integration to function.

- Video Viewer: Individual video streams can now be dragged between different viewer panels, and between different instances of System Designer and GateKeeper on the same computer.
- Video Viewer: Added support for using the mouse wheel to zoom in and out when viewing video streams.
- **Default PTZ Speed**: CCTV Cameras and CCTV Recorders now have the option to specify default Pan, Tilt and Zoom speeds to be used when sending these commands from the video viewer. This allows easy overriding of the default PTZ speeds to make the camera move faster or slower as required.

These properties should be set to the percentage of the built-in default PTZ speeds to use, with 100 specifying to use the built-in default PTZ speed. Set to 0 to use the defaults specified in the device's parents, where the device has a parent, and the built-in defaults where it doesn't.

NOTE: This feature requires a supported CCTV integration for these properties to have any effect.

- Integration Server Startup: Improved integration server startup speed and error handling.
- Intercoms: Added the option to specify an unlock time to be used when unlocking associated doors on an Intercom Point. This can be configured through the 'Associated Door Unlock Time' property in either the Intercom System's configuration, or overridden in the Intercom Point's configuration. Leaving the unlock time configured as zero will maintain the previous behaviour of unlocking the associated door/s indefinitely.

Display Themes

Display Themes allow customisation of the look of Integriti lists, allowing the selection of font, text colour and background colour of rows/items in a list based on the configuration or current state of each item. This gives the ability to make individual rows stand out from the rest based on custom criteria, allowing for an improved workflow and better visibility of the status and configuration of items in the list.

- **Disabling Themes:** Added the ability to disable Display Themes to prevent them being automatically used by Entity Lists. Display Themes associated with a Filter will still be used, even when disabled.
- **Review Categories:** Improved editor used when selecting Any Of or Not Any Of values for Review Display Theme's Category property.
- **Display Theme Rules:** Display Theme Rules can now use a custom filter to specify rules more complicated than can be configured in the default rule editor.
- **Display Theme Rules:** Integrated Device and Communication Handler state properties can now be selected for Display Theme Rules.
- **Dark Themes:** Added the option to specify Display Themes as 'Prefered For Dark Themes'. This allows for Display Themes to be prioritized based on whether the skin of the currently active theme is dark or light, where multiple Display Themes have the same preference. This opens up the option to configure a different Display Theme for dark and light skins and have



the correct one always be used, helping ensure better colour contrast with the skin's built in background and text colours.

• **Default Display Themes:** Default Display Themes have been added for a number of types, allowing for default colouring of these lists and easier customisation of the default colouring.

XML Rest API

INTEGRATED SOLUTIONS

- Compression: Added the ability to use GZIP compression on large XML responses
- Review: Added the ability to long poll for new Review Records
- Virtual Card Badge: Virtual Card Badge now supports specifying a Door to badge at by name.
- Virtual Card Badge: Can now wait for panel ack or Access Review to ensure the command was executed successfully

Improvements

- **Disconnect Clients:** Client connections can now be remotely disconnected from the Client Connections list in System Designer by Operator's with sufficient permissions.
- HID Mobile Credential Integration: Added support for the HID Mobile Credential Origo (subscription) portal. Newly created HID Mobile Credential Communication Handlers will be created referencing the new portal.

To create a new HID Mobile Credential Communication Handler using the Secure Identity Services (perpetual) portal, the HID Client Portal Version of the Communication Handler should be set to 'Secure Identity Services (1.0)'.

- **Controller Short Name:** For multi-Controller systems, a short name can now optionally be added to Controllers to prefix the Address of each Entity in that Controller. This can assist in identifying which Controller each Entity belongs when viewing Entities from across multiple Controllers.
- **Themes:** Improved theme selection to allow selection of a colour scheme for supported themes.
- **Ribbon Search Bar:** Added a search bar to the ribbon in System Designer and GateKeeper to allow ribbon items to be easily searched for.



- Alerts: Added option to Alert Definitions to not execute the 'Retriggered' Action when the Alert is restored.
- Alerts: Added new 'Maximum Activations' and 'Maximum Outstanding Alerts' options to Alert Definitions.

Maximum Activations limits the number of times a single Alert can be retriggered. Once the configured value is reached, the Alert will no longer be retriggered and future retriggers of the Alert will be ignored. This option will be automatically set to 500 by default on updating systems. Maximum Outstanding Alerts limits the maximum number of un-finalized Alerts in the system for the Alert Definition at any one time. Once the configured value is reached, no further Alerts will be generated for that Alert Definition until the outstanding Alerts are finalized. This option will be automatically set to 500 by default on updating systems.

This feature helps prevent "runaway alarms" from consuming excessive system resources and valuable operator time.

- License Manager: UI improvements to make relevant information on licensed features and client seat usage more visible.
- **Review List:** Commands for Entities associated with a Review Record can now be performed directly from the context menu of the Review in the Review List.



- Send Action: Actions can now be directly sent as either an Assert or a Deassert by simply pressing the corresponding button, rather than having to change a dropdown value, in the Send Action dialog.
- **Ekotek RTLS Integration:** The unassociated hardware dialogs now show all known hardware of the selected type, allowing all existing hardware associations to be managed from this dialog.
- Ekotek RTLS Integration: Users can now be to assigned Repeater hardware in addition to an Area or Location, allowing for alarms triggered from Repeaters to be viewable on Schematic Maps.

Issues Resolved

- **User List:** Resolved issue resulting in sorting by and filtering on the 'Credentials' and 'Permissions Summary' columns in the User Entity list not working.
- **Guard Tour Summary:** Resolved issue resulting in colouring of rows not being applied when printing a guard tour summary's steps.

Important Notes

• V20 firmware is recommended for the best experience using V20 software.

Notes For REST XML Technology Partners

 Changes have been made to the way Custom Field Values are serialized in the REST XML interface. See the Generated REST XML Documentation's 'Compatibility Notes' for further details

Version 20



Bug-Fix Release (v 19.1.5)

BUG-FIX RELEASE (V 19.1.5)

June 2020 - 19.1.5

Issues Resolved

- **Database Update:** Improved the speed of running the database update script when updating from v19.1.2.
- **Controller Sync:** Resolved an issue that could occasionally cause a data sync stall on multicontroller systems.
- **Review Sender Service:** Improved performance when large numbers of connections are made to the Review Sender service from a third party.
- Dot Net Support: Added support for Dot Net v4.8.0.528372.
- User Import: Improved performance on large sites when importing Users (Via XML, CSV, REST XML).

Improvements

• **Apartments:** Can now have numbers greater than 255. NOTE: Integriti Controller Firmware v19.1.3.37707 or higher is required to make use of this change.



Bug-Fix Release (v 19.1.4)

BUG-FIX RELEASE (V 19.1.4)

April 2020 - 19.1.4

Issues Resolved

- **Controller Data Sync:** Improved & optimized the 'disallow controller changes' data-sync mechanism.
- User Access Report: Resolved potential error when running User Access Reports when logged in as an Operator with an Operator Type with insufficient permissions.

Improvements

• **Apartments:** Can now have numbers greater than 255. NOTE: Integriti Controller Firmware v19.1.3.37707 or higher is required to make use of this change.



Bug-Fix Release (v 19.1.3)

BUG-FIX RELEASE (V 19.1.3)

March 2020 - 19.1.3

Issues Resolved

- **Cyrillic Character Support:** Resolved issue that resulted in Cyrillic characters in Entity names showing in Review as '?'.
- KONE Access Integration: Reduced the number of simultaneous active connections the Kone integration has to Kone at any one time. This reduces the required number of Kone connection licenses required for the Kone integration to be used. The Kone Access Integration requires at least 3 Kone connection licenses to be present in the Kone system for the integration to function correctly.
- **KONE Access Integration:** Changing the Expiry Date/Time of an Integriti User now correctly updates the Kone Access Right Expiry.
- KONE Access Integration: Resolved issue that resulted in the Kone integration being unable to sync the re-assigning of a Card from one User to another
- **Control Workstation Task Action (Play Sound):** Resolved issue that could result in parts of the GateKeeper UI not updating correctly when multiple Control Workstation Task Actions that play sounds are triggered in quick succession on the same Workstation.

Bug-Fix Release (v 19.1.2)

BUG-FIX RELEASE (V 19.1.2)

March 2020 - 19.1.2.15837

Issues Resolved

- Editing Lists: Resolved issue that could result in items being unintentionally removed from a List (Door List, Area List, etc) after editing the list from a Controller keypad.
- **Human Readable Report:** Resolved issue resulting in the Human Readable Report not running for many Controllers.
- **Permissions Report:** Resolved issue where having multiple identical qualifiers could result in rows being removed from the report.
- Challenge Response: When a Location is full, access requests are now automatically denied.
- **Review:** Direct Entry Cards are now correctly associated with Access events.
- **Photo ID:** Resolved issue that could sometimes result in the error 'A generic error occurred in GDI +' being shown when attempting to print a Photo ID.
- **Muster View:** The Count field now has the correct value when printing Muster Views.



BUG-FIX RELEASE (V 19.1.1)

December 2019 - 19.1.1.15582

Improvements

• RTLS CCTV Improvements: Users now have their associated Area/Location automatically updated as their RTLS position changes. This allows CCTV footage to be shown directly from a User from all of the cameras associated with the Area/Location that their RTLS position shows them as being inside of.

This can be configured by placing the Areas/Locations on a Schematic Map as Shape Elements covering their positions relative to the RTLS system, then pressing Auto-Allocate Positions to save the Area's/Location's position data. Once this is done, Users will automatically be moved to the Area/Location their current RTLS Position falls within as their position changes, automatically associating the Cameras associated with that Area/Location with the User, until they move to a new Area.

- Alerts: When grouping Alerts with a source of Review Filter by a Format String, all empty results of the format string are now automatically grouped, rather than always creating new results.
- **Muster Report:** Muster reports now have the option of selecting Locations and Muster Locations in addition to Areas and Muster Areas.
- **Time On Site Report:** Added support for Lift Access when using a Processing Mode of First/Last Badge.

Issues Resolved

- **Finalizing Alerts:** Resolved issue where Alerts could sometimes not be finalized after the triggering Entity was deleted.
- Review: The Review list no longer automatically un-pauses when selecting a record.
- Invoke Integrated Device Task Action: Resolved issue resulting in the configuration options not showing up for some Integrated Device command types when editing an Invoke Integrated Device Task Action.
- **Partitions:** Resolved issue where deleting partitioned Entities could sometimes result in Entities being incorrectly deleted from Controllers in other partitions.
- Schindler Lift HLI: Resolved issue resulting in Schindler Lift HLI Communication Handlers configured in Integriti v18 not working after updating Integriti without reconfiguring the Communication Handler.

Important Notes

• If using the Inner Range Mobile Reader Application, an update will be required in order to continue working with Integriti v19.1.1.

Notes For REST XML Technology Partners

• Changes have been made to the properties of User State in the REST XML interface. See the Generated REST XML Documentation's 'Compatibility Notes' for further details.

VERSION 19.1

November 2019 - 19.1.0.15471

Version 19.1

Schematics Improvements

Viewer:

- Element Labels: Elements can now have a label shown about them positioned relative to the element (top / center / bottom, left / center / right). The contents can be customized in the element presenter, showing the linked item name by default.
- **Custom Hover Text:** When the mouse moves over map elements, useful information about the element can be shown. This information is customizable in the element presenter.

Editor:

The editor has several productivity improvements to accelerate the creation of high-quality schematic maps. More will come with future releases, but here are some highlights in this release:

- Management of elements in the Element List has been enhanced. Elements now have an icon for their type, an editable description, and visibility and lock control.
- Usability when inserting and editing of elements has been improved.
- Previewing of layer visibility

Door Schedules

When you know you need a particular room unlocked for an upcoming event, you can now create a "Door Schedule" in advance. Schedules can be managed and reported on from the new "Door Schedules" list in "System Designer".

Schedules can also be managed from the context menu of any door in either "System Designer" or "Gatekeeper". This functionality is also available when right-clicking a door from a schematics map.

D2	Locked	6	Door-User Activity κεροπ
D3	Locked	&	Door-User Reference Report
D4	Unlock		Configure Upcoming Schedules
D5	Unlock	6.97	configure opconning benedules

Inactive Credential Used

When cards are marked as lost / stolen / damaged are used, the system now creates new review events specifically for these events, and associates the user with the card review events.

This allows the creation of Alert Handlers or automatic actions when a "blacklisted" card is used anywhere in the system.







Version 19.1

Improved Lockout Capabilities

Configured in "System Settings", operators and / or credentials can be temporarily locked out of the system when too many incorrect login / access attempts are made.

Card+PIN Mismatch activates when a user presents a valid card at a reader, but then enters an incorrect PIN.

Operator Lockout activates when an operator uses an incorrect password.

System Settings							
0	2↓		Q				
G	Lockout Settings		•				
	Card+PIN Mismatch Attempts	3					
	Card+PIN Mismatch Timeout Minutes	2					
	Card+PIN Mismatch Deactivate Minutes	2					
	Server Lockout Number of Attempts	0					
	Server Lockout (mins)	0	=				
	Operator Lockout Number of Attempts	0					
	Operator Lockout (mins)	0	-				

Powerful New Uses for "Filters"

Pre-Defined "Filters" have always been part of Integriti, but now filters can also be used in other areas of system programming.

r Filters A

Improved Review Trigger Filtering

Send Communication Message

Review triggers (as used in Scheduled Tasks, Alert Definitions, etc) now allow 'Filters' to be referenced to identify the events to trigger on.

A filter may simply be a 'Review Filter' (perhaps specifying just access granted events), but additionally, a filter can narrow down events based on which entities the review event refers to.

For example, a 'Custom Field' called "Under Probation" could be defined on "Users", and a filter created to only display the Users with this option enabled. An 'Alert Definition' could then be created to trigger whenever a user under probation is denied access to a door.

Messages recipients can now be specified by referencing

a 'Filter' instead of manually including each user. This allows you to easily broadcast a message to all member of a department / group, or any other criteria you can filter on (perhaps just the people in a particular area).

Trigger activates when ALL filters match the event Categories 12 of 655 Categories Filters Advanced Categories Advanced Categories Advanced Categories Advanced Categories Categ

Review Filter

Action Type: Send Communication Message

Alert Source

Review Filter

Me	ssage Type None			
	Aessage Recipients]		
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Version 19.1

Strongly Typed Credentials & 2 Factor Authentication

Credentials (formerly known as cards) are now identified (by the Credential Type in their Credential Template) as one of the following categories:

- Card
- Face
- License Plate
- Fingerprint
- Eye

Door / Lift Type programming can then require a specific type of credential, or even any 2 (or 3) types of credential. This allows many more access control scenarios to be defined, like requiring both card and biometric credentials to access a door or allowing facial recognition during the day for faster user processing but disabling that mode in the evening.

*This feature requires V19.1 Controller Firmware.

Other Improvements

- Alerts: The new 'Claim Next' button allows operators to quickly move on the next most important alert in Gatekeeper.
- Alerts: Alert Views are now able to utilize 'Display Themes' so the appearance of alerts can be customized for each site.

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- Alert Responses: The workstation 'host name' and client type are now recorded against each alert response.
- Control Workstation: Reset Schematics Zoom (all maps / all 'default' maps).
- **Pin Mismatch:** Configure in "System Settings" after a number of incorrect PINs, the card is deactivated for the specified number of minutes (requires V19.1 firmware)
- **Control Workstation Task Action** Added Auto-selection logic to either only control client from context, or auto-select clients based on Operator and Workstation ranks
- Integrations Added 'Restart Persisted Connection' command to plugins to allow restarting a connection from the context menu
- Review List Exclude & Include Category menu options now apply to all selected rows
- Review Events:
 - o Inactive card review events now reference the associated user
 - Server start-up now creates a review event
 - When any Integrated Device command is invoked an event is logged.
- New System Warnings:
 - New system warnings when low drive space is detected.
 - New system warnings when Servers are offline.
- Assign System Inputs: Automatic 'System Area' input programming can now use a different process group for door forced alarms
- Web Interface: The server-side session inactivity timeout (configured in Operator Type) is now enforced in the Web Interface.
- **Time On Site Report**: Can now include "Door Unlock" events when using the first / last processing mode.
- **Communication Messages:** HTTP Content can now be enabled for the message body.



Version 19.1

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- **CSV Import:** The ID (Address) property now works when mapped for Entities and can be used as a key
- **CCTV**: Show Associated CCTV Footage on a User will now show the CCTV footage for that User's associated Area/Location
- **Task Actions:** When invoking an Integrated Device Command, the device can now be selected automatically based on the triggering context
- Kone Access Integration: Improved user interface and added compatibility with more Kone card formats.

Issues Resolved

- Resolved an issue that caused some review windows to incorrectly filter out all review.
- Filters Collection Contains filters can now be saved



Bug-Fix Release (v 19.0.1)

BUG-FIX RELEASE (V 19.0.1)

August 2019 - 19.0.1.15054

Improvements

- Lift Integrations: Schindler & Kone ACI now allow inspection / editing of the "service data". This should only be done on instruction form Inner range support staff.
- Kone ACI Integration: Lift car allocation events can be associated to the Lift-Floor area.
- Kone ACI Integration: Configuration now uses drop down combo boxes.
- Review Sender: The 'Remote Server" can now be specified by either DNS name or IP address.
- Filters: Day of Week filters can now use "Any Of"
- Card Enrolment: SIFER enrolment station now supports CSN cards (using the Direct 88 format).
- **CCTV Export:** The status of a CCTV footage export is now displayed at the end of the export, to make it clearer if the export succeeded or failed.
- **Remote CS Connections:** The "Allow CS Remote Connection" license is no longer required to remotely administer small systems with Integriti CS (regardless of the Smart card level).

Issues Resolved

- Schindler Lift Integration:
 - Resolved an issue that caused deleted cards to stall user-sync.
 - Deleting users who are already deleted no longer causes an error.
 - User sync failures no longer stall data-sync (errors are logged to review)
- Partitioned Systems:
 - CSV Import now supports importing users into a partition.
 - o irentities exported systems (ie from CS) can now be imported into a partition.
 - o Card 'collision detection' logic is now 'Partition Aware', supporting legitimate duplicates.
 - Partitioned entities inside sub-sites have their address 'Short Name' correctly updated.
 - Partitioned entities in global user permission rows no longer written to all partitions.
 - Partitioned programming referenced no longer incorrectly behave like global references.
 - CCTV Viewer: The timeline now more accurately matches the current playback time.
- **CCTV Export:** Resolved potential errors exporting CCTV footage in some scenarios.
- User Interface: Improved UI responsiveness in the Edit User screen.
- Alert Definitions: The default Alert handler is now disabled.
- Schematics: Resolved an issue that caused Layers to hide some elements.
- **Control Workstation Task Action:** Improved performance of the Show Items option when the Task Action is triggered multiple times in close succession.
- Review Windows: Resolved an issue that sometimes caused no events to be shown.
- **Time Trigger:** Resolved issue resulting in the Start Time of a Time Trigger being lost when changing the frequency of the trigger in the editor.
- Active Directory: Resolved issue resulting in the error 'The Server does not support the requested critical extension' when attempting to perform an AD import on large Active Directory Databases (>~20,000 Users).
- Active Directory: Distinguished Names of Groups and OUs are now visible from the editor in the Active Directory Communication Handler.



VERSION 19

June 2019 - 19.0.0.14739

6 IPdome

Side Door

Version 19

New & Improved Camera Interface

The CCTV camera interface has been completely overhauled, and now supports:

- Multiple standard layout configurations.
- Control Items associated with cameras directly from the video stream.
- Easily navigate with the timeline.
- Export short clips or snapshots to file or the Evidence Vault (requires integration support).
- Control PTZ tours directly from the video stream.
- Aspect ratio can optionally be enforced on a per camera basis.
- New layout options, including "N + Main" layouts that are designed to show many thumbnail camera streams, and allow operators to click on any of them to bring that camera to the Main large display.

Schematics

- **Map Group Clustering**: Zooming out now displays your buildings as "Icons:
 - Isolated buildings are shown with names "location icons"
 - Zooming out further will group buildings into "cluster icons"
 - Icons turn red to indicate the presence of alerts
 - Clicking on a cluster shows a menu to jump to your chosen map.
- Editor:
 - Improved UI for the positioning of maps within a map group
 - o Improved UI for rotating and positioning map elements

Evidence Vault

Evidence Vault is an interface that allows any file to be stored and retrieved for later use.

- **Cryptographic Fingerprinting:** Evidence is stored with MD5 and SHA-256 cryptographic hashes, so tampering with any evidence extracted from the vault can be detected.
- Compatible CCTV Integrations can store clips (or snapshots) directly into the Vault.
 - Footage associated to Alerts can be stored in the Vault automatically (for example via the 'Save Associated Footage to Evidence' action in the Created Actions), or manually from the context menu.
- Configure the storage location (UNC) in 'System Settings':
 - Only the Server requires access, so evidence can be secured, and won't bloat your database backups.

Operator permissions give fine grain control over who can store or retrieve evidence items.





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Partitioned Systems

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Version 19 introduces "Partitioned Sites" allowing the creation of Users (and other 'global entities') that only exist within the 'Partition' they were created in.

- Create new 'Partitions' from the "Site Navigation Tree" in System Designer.
- Users in Integriti's existing 'Global Partition' are still truly global.
- Choose your current "working site" from the new selector in the title bar.
- Partitions can contain multiple ISCs & IACs.
- Each 'Partition' can have its own local 'User 1'.
- Card / PIN uniqueness is only enforced within a partition.
- Partitions are entirely isolated from each other.

For more information refer to the "Integriti Partitioned Systems Guide" located in the 'docs' folder. *This feature requires a license.

High Level Camera Alarm Integration

Your integrated devices (Cameras / Intercoms / etc) can now trigger inputs in Integriti's sophisticated intruder detection capabilities.

• Configure in integrated device properties.

Communication Handlers

- New Kone ACI HLI: Sync users and access events with Kone's next generation lift ACI platform.
- New ModBus TCP Slave: Allows 3rd parties to use the Modbus protocol to monitor and control Doors / Areas / Auxiliaries & Inputs.

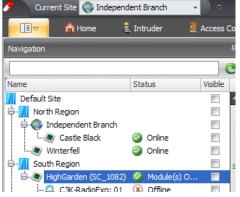
Alerts

- Pre-Defined Alert Responses allow operators to more efficiently close issues, and enforce consistency to enable better reporting.
- All Alert Sources now support "Finalize only when alarm conditions are restored. Additionally, 'restore' event can be either counted (existing functionality) or a single restore can clear many triggers.
- New review 'Categories' filter for the Intruder Events Alert Source This allows the exclusion of some XMIT categories, or states for example to exclude Tamper Events.

Quality of Life Improvements

- System Warnings: New system warnings when low drive space is detected.
- Control Workstation: Reset Schematics Zoom (all maps / all 'default' maps).
- Control Workstation: Can now 'Load System Layout'.
- **Operator Compliance Restrictions:** "Ensure Maximised" removes the ability to "restore down" the main GateKeeper application.
- Workstation & Server entity lists can now display their last know OS and .NET versions.





Version 19

Bug-Fix Release (v 18.2.3)

BUG-FIX RELEASE (V 18.2.3)

May 2019 - 18.2.3.14706

Issues Resolved

- **HID Mobile Credential Integration:** Fixed an issue that prevented assigning HID Mobile Credentials when using the counted license.
- **Controller Data Sync:** Fixed an issue that could result in Controllers being unable to sync data while connected to Integriti.
- **Operator Challenge Response:** Improved processing when multiple 'Challenge Definitions' match an access request (ie. are for the same door):
 - All open 'Challenge Windows' now receive new requests.
 - All open 'Challenge Windows' are now updated by any relevant response.
- **Operator Challenge Response:** Challenges can now be actioned from the 'Past Challenge Viewer' if performed before the challenge times out.
- **Operator Challenge Response:** Multiple Challenge Definitions can now be viewed simultaneously in Integriti Gatekeeper.
- Card Parity: 38-bit cards with high card numbers now have their parity calculated correctly.
- Day of Week Filters: Resolved an issue that prevented review triggers (Scheduled tasks / Alert Definitions / etc) containing 'Day-of-week' filters from working correctly.
- Format Strings: Where previously invalid tokens using the new curly brace format in a format string were left in the resulting text, invalid tokens are now removed. This will affect format strings used in such places as Alert Response Plans, Log Review Task Action, Challenge Definitions, etc. NOTE: People using the legacy '%' syntax should update their format strings to use the new curly brace notation.
- Format Strings: Added support for entering literal curly braces by entering '{{' or '}}'. If any single curly braces are currently being used as literal curly braces in a format string, they should be replaced with the new double curly brace notation.
- Active Directory User Sync: Fixed an issue that resulted in not some Active Directory Groups being missing from the 'Groups To Monitor' property of the Communication Handler on larger sites.
- Schematics Map Viewer: Fixed potential issue that could result in the Status Summary or Command panels not being visible or resizable.



Bug-Fix Release (v 18.2.2)

BUG-FIX RELEASE (V 18.2.2)

March 2019 - 18.2.2.14467

Issues Resolved

- Arm Area Window: Pause button now moves when the window is resized.
- Reports: Fixed an issue that prevented operators without a 'Name' from running reports.
- LPR: License plates now support Unicode characters.
- Programmed Inputs List: Improved performance on large systems.
- Alerts: Resolved an issue that caused the 'Escalate Alert' task action to occasionally not work.
- Schindler HLI: Incompatible cards no longer interrupt user card syncing.
- Schematics: Copy / paste / delete 'Edit mode' keyboard short-cuts no longer have any effect in 'View Mode'.
- Audit: Resolved: 'Show History' occasionally showing the history of another entity.
- **Photo ID:** Fixed an issue that caused barcodes to be printed the same for every card, when printing cards for multiple users at the same time.

BUG-FIX RELEASE (V 18.2.1)

February 2019 - 18.2.1.14187

Issues Resolved

- Schematics Editor:
 - Status bar show position and size.
 - Resolved some grouped item visibility issues.
 - Schematics: Fixed Single Click Actions from touch screens.
- Guard Tour: Resolved an issue starting tours created in V18.2.0.
- Muster View: Windows can be opened in a new Tab.
- **Sounds**: Resolved an issue that caused Alert sounds to be lost during a version upgrade.
- HID Mobile Credential: Updated to current HID production URL.
- **CS Edition**: Resolved issue that prevented customizing list views (ie adding new columns).
- **Panel Connectivity**: Fixed an issue that could potentially cause controllers to stop data-sync & control functionality on networks with occasional very high latency.
- Lists: Reduced flicker in review & other rapidly changing lists.
- User Editor: Fixed an error that occurred when exporting some User photos.
- Display Themes: Improved Display Theme colour blending.
- Commissioning Report: Sims II group number is now correctly reported.
- Resolved an issue that caused custom enhancements to not compile on some touchscreen equipped clients.



VERSION 18.2

November 2018 - 18.2.0.14056

Version 18.2

Schematic Maps & RTLS

New "Map Groups"

See all of your schematic maps as one giant interactive vector map.

- Zoom in on individual maps for high detail, or zoom all the way out to see a helicopter view of your entire installation.
- Multi-Level complexes can overlay maps, allowing you to choose the level you are interested in.
- Position maps over a worlwide "street view"
- Auto-rotate as you zoom in on a particular map, it will automatically re-orient to the map's "design orientation"

Schematics Vector Editor - Schematic maps are easier than ever to create, as the new Vector Engine is now used when designing your maps for a true WYSIWYG experience.

Alerts & RTLS

Applying co-ordinates to entities in the system allows Schematic Group Viewers to automatically zoom in on the relevant areas.

Co-Ordinates can be applied to Doors, Areas, Inputs, Users, Alerts, Cameras & Intercoms by Integrations to 3rd party providers.

Once a map has been "located" (by placing it on a map group) you can easily update the geo-location for all items on the map from the Map editor with the new "Auto Allocate Positions" feature.

Alerts automatically inherit the RTLS geo-location of the items that triggered them. This enables the Alert to be visualised as an Icon on the appropriate map. (choose an element presenter in map properties).

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5 User/s Not In Mus

19 AV

L9 AV

L9 AV

Current Location

super secret safe

Last Updated

13/11/2018 4:1...

21/12/2017 11:...

12/12/2017 3:1...

23/06/2017 2:4...

Live Muster View

Provides an interactive view of where everyone is during an evacuation - Similar to the Muster feature of the Mobile Reader Application.

Configure "Muster Views" from System Designer -> Access Control -> Muster View.

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ntelligent Security Solutions

Use a "Location List" to determine which areas or locations are included in the the view, and the "Muster Point" check box in Area & Location Programming to indicate which areas are "safe".





6 User/s In Muste

In View

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Name

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Off-Site

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Version 18.2

HID Mobile Credentials

Allocate and manage HID Mobile Credentials from within the Integriti User Editor.

Configure the new "Cloud Credential Service" to:

- Monitor the progress of allocated credentials
- Send customised Email / SMS Invitations to Users

*This feature requires a license.

REST / XML 3rd Party Interface

- New Session Cookie (when security is enabled):
 - The session cookie validity is configurable from 5 to 60 minutes
 - Allows a significant performance improvement
- Control License now allows "Virtual Card Badges"

Active Directory Integration (Users)

- New editor makes working with large AD's much easier.
 - A Tree makes choosing OU filters or AD Groups much easier.
 - Test import now shows any attributes that contain no data at the bottom.
- Improved support for Group based filtering. (Including the AD "Built-in Groups")
- When configured to sync Cards, new cards are now created in the "Import Settings -> Default Site".
- Performance improvements.

Display Themes

Customising the look of Integriti lists is easier and more powerful than ever, thanks to a "Display Theme" overhaul:

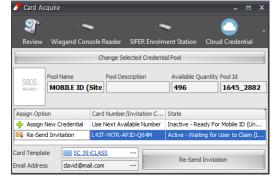
- Customise either the whole row, or just the field you choose.
 - Rules can change every aspect of a row or item:
 - Font, including bold / italic font modifiers
 - **Colour**, separate foreground / background colour.
 - Flashing, make important alerts / states really stand out!
 - Gradients, an optional 2nd background colour allows gradients
- Increase (or decrease) the size of specific rows.
- Preview how your rules will look while you are creating them:

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-4	🐥 Add 👝 Remove 🗍 Duplicate								
	Property Name		Operator		Property Value	Properties To Highlight	Overview		
	State - Summary	Ŧ	Contains	-	override	State - Summary 🔹 👻	Flashing, Text & Back Colour		
	State - Door State	Ŧ	Any Of	•	Unlocked, Un-Locked 👻	State - Summary 🔹 👻	Back Colour, Bold		
>	Name	Ŧ	Contains	•	important	Entire Row -	Font=Arial, Size=180%		
	Name	Ŧ	Contains	•	auto	Entire Row -	Back Colour, Font=Arial		

Remember: 'Filters' can use a specific 'Display Theme'



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Alerts Workflow Improvements

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- **"Control WorkStation" Action:** Added the option to specify where the dock window for items shown should be opened. It is now possible to select from:
 - Opening the item in the current 'default' window if one is available, otherwise creating a new 'default' window
 - Using an already open window for the same type of item, otherwise opening in a new window
 - Always opening in a new window
- **"Control Workstation" Action:** Added the ability to show entities from the context of the action, rather than only showing the explicitly selected items. This means that the CCTV footage or Schematics Map shown will dynamically change depending on which entities the context of the action references, only showing the relevant footage/map each time.

Operator Permissions & Layouts

- Layouts: Added the ability to select a default dock window to use for showing CCTV footage and Schematic Maps from context menu commands, rather than always opening in a new tab. This allows the 'Show Video' and 'Show In Map' commands to always show the corresponding item/s in a selected Window, which can be stored as part of a layout, allowing multiple items to be shown one after the other, all in the same window. The default window can also be used to ensure items opened using the Control Workstation command always open in the same location.
- **Operator Restriction:** Added the ability to prevent an Operator Type from being able to change the default sorting of Entity Lists. This allows information to be laid out in a set format, with priority items always showing at the top.
- **Operator Restriction:** Added the ability to prevent an Operator Type from being able to apply filters to columns in Entities Lists. This ensures that no Entities can be hidden from view due to a filter being applied to the list.
- **GateKeeper Restriction:** Added the ability to prevent an Operator Type from closing GateKeeper, ensuring the software is always left open.
- **Restore Layout:** Added a button to the ribbon to easily restore a layout back to its saved settings, reverting any changes made to the layout since it was last saved.
 - **Operator Restriction:** The new 'Can Factory Reset Layout' option can prevent operators from unloading their assigned layout.

Quality of Life Improvements

- **Operator Types Editor:** Type categories are now organised by their location in the System Designer ribbon, and can be manually searched by name when looking for a specific type. A new "Top Level" check box makes it easy to change all settings.
- **Guard Tour Editor:** A tree view (similar to the "Running Tour" view) makes it easier to create groups in Guard Tours.
- **Guard Tours:** Operator 'View permissions' on Guard Tour Definitions now apply to the running Guard Tours window.
- Scheduled Tasks: Next Time Trigger column is now a DateTime instead of a string
- Triggers:
 - All Triggers: Added an optional "TimePeriod" qualifier (with invert bit)
 - Review / Door/Area Triggers: Added User match mode to allow them to only work for some users.
 - Using DoorLists in Door / Area Triggers now required only a server restart to pick up changes in door list programming (as opposed to re-editing the trigger).



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- \circ The ability to specify just access granted / denied / or either to Door Area Triggers
- **Door Editor:** added support for 2 badge arm modes, and allowed editing from the arm mode from within the reader edit fly-out.
- **Timed Door Unlock:** When unlocking a door from the software, the prompt asking for the unlock duration now defaults to the unlock time for the door, (or 5 seconds if a time is not specified)
- **Reports:** The new "X Reference" Report shows direct relationships between entities in the system for example, which users have been assigned certain permission groups.
- Email Sender: Emails can now be sent in HTML format
- New License Plate Recognition:
 - LPR: Coalesce Ambiguous Characters Optionally makes LPR more reliable by treating 1/I or O/0 as the same char.
 - LPR: Ignore Case Optionally makes LPR case insensitive.
 - **'Associated Door'** now correctly identifies the reader in all cases.
- Improved editor & display of 'Notes' Custom fields.

Issues Resolved

- Rest/XML: Resolved issue where multiple concurrent requests could occasionally return an invalid password error.
- Reduced flickering in live windows on busy systems (particularly review).

Bug-Fix Release (v 18.1.2)

BUG-FIX RELEASE (V 18.1.2)

August 2018 - 18.1.2.13952

Issues Resolved

- Schematics: Resolved a problem opening maps containing items they have no permissions to see.
- Schematics: Resolved issue that caused flip / rotate transforms to not always be applied in view mode.
- Schematics: Resolved issue that caused groups containing icons to be hidden.
- **Pager Message Sender:** Added "OK" as a valid message ACK. Custom ACK messages can now be configured.
- **Communications Handlers:** Any handlers that are stopped due to errors are now automatically re-started.
- **Review:** Resolved issue when selecting categories in review filters, or when filtering live review to "exclude category".
- **System Warnings:** Removed the incorrect license warning when more than 100,000 users are in a controller with a Level 5 User expansion Kit.
- Integriti Mobile: Review dates are now in local time.
- Entity State: Fixed bug that caused state changes to be sent from the controller on the first connection after a "default" even when the controller "Prevent State Syncing" option was enabled.
- **EKOTEK:** Resolved issue that caused user state to not be created.
- **Permissions Editor:** Resolved an issue that caused permissions editors to display the error message: "Year, Month and Day parameters describe an un-representable DateTime".



Bug-Fix Release (v 18.1.1)

BUG-FIX RELEASE (V 18.1.1)

July 2018 - 18.1.1.13342

Mimic Viewer

The Integriti Mimic Viewer is designed as a stand-alone installation of Integriti that maintains its own connection to an Integriti controller. This connection can be made alongside an Integriti Professional connection, via Ethernet or serial. Primarily, the Mimic Viewer is intended to allow local on-site schematic maps to be displayed that don't rely on an Integriti server that is located off-site.

For setups where a centralized Integriti Professional server is located off-site, if connectivity to the central server is lost then the controller will still function normally, but any software clients that are logged in will disconnect. Some of these software clients could be used to show fire alarm, duress or other site information on a monitor on the wall that are critical to OH&S. If this is the case, then the Mimic Viewer product is an ideal alternative that does not rely on internet connections.

For more detailed information about the Mimic Viewer, including usage examples and how to install and configure it, see the Integriti Mimic Viewer programming manual available on the Technicians Downloads section of the Inner Range website.

*This is a stand-alone Integriti product like Professional and Express and hence requires its own product activation key.

Issues Resolved

- **Card Printing:** Resolved issue that sometimes resulted in User Details not being shown when printing a Card.
- Site Defaults: Resolved issue that caused the Site Time and Review Playback Buffer Site properties to not be inherited from parent Sites when not set in a child Site.
- **Guard Tour:** Fixed potential error when showing CCTV footage for a Guard Tour in a new tab.
- **Guard Tour:** Added ability to modify whether or not a Group Step is ordered.
- System Performance: Optimisations to system load times.
- Integriti Mobile: Fixed incorrect door states shown for DOTL and Door Forced states.
- **Review:** Review from foreign Controllers now correctly translates the names, and references the "other" Controller's items.
- **EkoTek Listener Service:** Fixed bug resulting in received location updates not being generated.
- **EkoTek Listener Service:** Fixed issue preventing associating multiple Repeaters with the same Area/Location.
- **EkoTek Listener Service:** Fixed an issue where System Warnings were not removed from Entities when these alarms were claimed in the EkoTek software.
- **EkoTek Listener Service:** Fixed issue that could result in 'Multiple Entity' problems stopping the service rather than just displaying a warning.
- **EkoTek Listener Service:** Claimed/Raised alarms caused by Repeaters now only display the Repeater name once.
- REST/XML Interface: Fixed issue that caused the DateTimeGenerated field to be overwritten with the current insertion time. This now only happens if the DateTimeGenerated is more than 1 day in the future.



Bug-Fix Release (v 18.1.1)

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- **Communication Services:** Fixed issue that prevented the IPXmit, Review Receiver and Review Sender Communication services from being able to start again after being stopped by the software without a server restart.
- Schematics: Added support for importing SVG files containing foreign elements.
- Schematics: Fixed potential issue resulting in some elements not showing up on a map until a state change occurred.
- XML Import: Fixed potential issue importing items into Integriti that could result in properties not getting set correctly.
 - NOTE: Items must be re-exported to resolve this issue.

Feature Updates

- **UI Update:** Resolved several issues when using high DPI displays.
- Audit: Changes to Integrated Devices and Communication Handlers are now audited.
- Guard Tour: Improvements to current step overview in the Guard Tour Summary.
- **Firmware Update:** Software now provides a warning when attempting to update a Controller's firmware to a version newer than the software version.
- **Operator:** Last Login and Login Count are now stored for Operators.
- Schematics: Added the ability to cancel setting an SVG file and a notification when taking longer than expected The 'Esc' key can now be pressed while the image is being rendered to cancel the import (the progress form must be focused for this to work)

New in Version 18.1

NEW IN VERSION 18.1

April 2018 - 18.1.0.13171

Schematics Animations

Make your maps come alive with flashing text and animations!

Default Element-Presenters have been updated to include visual indications when alarm / tamper states are active.

This can be customized in the element presenters "Animation Settings".

Animations allow a 2-frame animation to be applied separately to the "Shape", "Icon", and "Label" formats within an element presenter (on conditions of your choice). Allows elements to flash or pulse, and also change size.

Guard Tour

"Guard Tour" helps you organise, log, monitor and execute routine security tasks, improving safety, security and accountability for your staff.

- **Real Time Tracking:** When personnel are conducting their predefined tasks, their progress can be monitored in GateKeeper.
- **Overdue Alerts:** When combined with Integriti's powerful Advanced Alerts engine, email / SMS / popup-windows and more are all possible to ensure staff safety.
- Flexible Grouping: Tours can be broken down into groups of sub-steps, and optionally completed in any order. This allows guards to randomize the order of activities (making patrols more difficult to predict by would-be attackers)
- Accountability & Dispute Resolution: A comprehensive audit trail easily settles disputes about what patrols (and parts thereof) have been completed.
- Automation: As the Guard progresses through the tour, tedious tasks (like re-arming the cleared area) can happen automatically.
- Scheduling: Guard Tours can be started manually or as part of a pre-defined Schedule
- **Reporting:** With the reports module, you can always know which patrols were completed each week.

'Guard Tour Definitions' are created by the system integrator in 'System Designer', specifying in great detail what tasks should be performed in what order, and what should happen when they are completed (or not completed in the prescribed time).

Operators can the Start a Guard Tour manually from Gatekeeper, or the scheduler can automatically start Tours.

*This feature requires a license.

Alerts

The "Finalized Alert" can now show more information in the 'Alert Summary' about the history of an alert (including any notes an Operator may have left in responding to an alert) This Data is also available to reports on Alerts.

The appearance of Alert Views can now be customised with Display Themes, and viewed with 'Filters'.

*Alerts Definitions can now customize the formatting of the message (previously was just the review text).

*Alerts created with Review Triggers can now specify a separate review filter to be used as a 'restore'



*Requires an Advanced Alerts license

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64 Bit Integration Server

The new 64-Bit integration server allows new integrations to utilize expanded memory and resources available on 64-bit servers.

The existing 32-bit Server is still installed as well to support older integrations that require a 32-bit host.

Integriti will automatically load any plug-in with the correct Server.

Cards (Expiry & Temporary Replacement):

Individual Cards can now be expired (or given a future start date)

Convenient UI shortcuts facilitate common tasks, like when a User needs to be given a temp card for the day.

These are available from the User Edit Screen. Cards now have new Status types so you can easily know / report on which cards are temp cards. Cards also reference which card they are replacing, making it simple to track down the history of any

Cards	Cards RF Remotes									
🔜 Acquire Card 🗊 Enter Number 💠 Existing Card										
Card Number Card Type Status										
Ø. 💳	6. 12480 Sifer Card Active									
	Select Start/End Dates ×									
	Delayed Start Expiring									
	Monday, 9 April 2018 T Sunday, 15 April 2018									
	12:00:00 AM									
	Today Tomo	rrow Th	nis We	ek	Next Week This I	Month				
	6 Days 0 Hrs 0 Mins Selected 4 Days 6 Hrs 22 Mins Remaining									
otes					Vse Selected Da	tes				
						_				

More Powerful Custom Enhancements

Inner Range Professional services have more power than ever in being able to customize the Integriti platform to individual Customer requirements.

OnSave Triggers

cards.

Customized Context Menu Commands

*Custom Enhancements are quoted by Inner Range professional services on a per job basis.

Mobile Reader

With "Mobile Reader", your Security Officers can easily verify personnel credentials, and perform evacuation mustering from their compatible mobile device.

Credential Check: Simply swipe a user's access card instantly see the

associated users on file photo, and relevant details. Guards can then activate (or de-activate) the swiped card on the spot.

Mobile Muster: In the event of an emergency, Security Staff can easily see who is still in danger (and where they are), as evacuating staff swipe at either fixed muster points, or directly at the "mobile reader".

*This feature requires a license.

EkoTek Listener Communication Service

Monitor and track the location of assets and personnel with the new EkoTek Integration. *This feature requires a license.





New in Version 18.1

Quality of Life enhancements

- New Review Filters can now be easily created from existing windows
- Schematics can now handle a wider variety of SVG files.
- LPR The License Plate Recognition feature now allows more control over which reader is used for LPR.
- **Time-On-Site Report:** A new mode allows processing based on 'Location Changed' review (as opposed to Access review)
- The REST / XML interface Documentation is available at http://127.0.0.1/doc/XmlApiDoc.html (when licensed and configured)
- **Reports:** Global parameters have now been added to reports to allow the report designer access to information like:
 - o Who ran the report
 - o Who / When the report was last edited
 - The date range of the report
- Show on Map: Right click on any item in a list, and you can easily open the schematics map this item resides on.
- **Grant Amnesty:** Right click on a user and choose 'Grant Amnesty' to easily resolve anti-passback issues.
- Schindler HLI: Custom fields can now use more 'Custom Field Types' (for example ComboBox can now be used where previously only a Text field was allowed)

Bug Fixes

- **Qualifications:** fixed an issue that caused qualifications with multiple triggers to sometimes fire all triggers actions when any trigger happens.
- Schindler HLI: Fixed bug that caused inactive cards to be sent to the external system as active cards



Bug-Fix Release (v 18.0.4)

BUG-FIX RELEASE (V 18.0.4)

March 2018 - 18.0.4.12783

Issues Resolved

- Schematics: Fixed issue that caused initial state to show incorrectly, (when many state changes occur during map load)
- Application Layer HA: Improved Server to Server communication security & robustness.
- Scheduled Tasks: Fixed issue that caused some tasks to no longer be editable (if created in older versions).
- **Photo ID:** Fixed an issue that caused long labels with black text, using the "best fit" sizing option to sometimes be truncated.
- Photo ID: Fixed issue that caused 'delete' to fail for some card designs.
- Workstations: New properties let you see when each workstation was last used (from system designer) and they can be deleted. Ensure no Task Actions (schedules / Alert Definitions / etc) reference a workstation before deleting it.
- System Performance: Optimised the System Designer Tree display of hardware state.
- Active Directory Integration (Users): Increased performance of user sync and fixed memory leaks.
 - Note: Upgrading customers may still have configurations that manually specify the 'key' field. This is no longer the recommended way. A manual key incurs significantly more performance overhead than using the newer (introduced in V4.1) 'built-in' custom field key. To change an existing system to use the newer method:
 - 1. Ensure a full sync has been completed with the newer software, and that all your AD Users have a correctly populated 'cf_ActiveDirectoryGuid' custom field.
 - 2. Ensure none of the column mappings have the "key" column checked. (this column is now hidden by default, it can be found by right clicking in the column headers -> Column Chooser.)



Bug-Fix Release (v 18.0.3)

BUG-FIX RELEASE (V 18.0.3)

January 2018 - 18.0.3.12579

Issues Resolved

- Date/Time Editor: Fixed an issue caused date editors (like User Expiry).
- Gatekeeper: Fixed label on Review Group in Window Tab.
- Web Interface: Resolved issue that caused the "Use HTTPS" option to not work.

BUG-FIX RELEASE (V 18.0.2)

January 2018 - 18.0.2.12543

Issues Resolved

- **REST/XML:** Fixed an issue that caused some items to not be able to be deleted by Address.
- Controller Connect Dialog: Fixed occasional issue that caused the 'Connect Manual' window to not show up.
- Reports / Filters: 'System Warnings' can now be filtered / reported on.
- SIFER enrolment station: Made confirmation BEEP's louder when cards are detected. SIFER large LED indicates the connection status:
 - White (SIFER has power, but is not connected)
 - Blue: The Acquire Card dialog is open and communicating with the reader.
 - Green (momentary flash) indicates a card was read.

Bug-Fix Release (v 18.0.1)

BUG-FIX RELEASE (V 18.0.1)

January 2018 - 18.0.1.12501

Issues Resolved

- User-Door Recent Activity: Fixed an issue that caused the User Door recent activity window to sometimes show no results.
- **Operator Permissions:** Review events are only visible to operators who can 'see' the source 'control module'. This has always been the case, but is now also enforced from the Web Interface and Reports.
- **Operator Permissions:** Door Override commands can be hidden via the new 'Send Override Commands' option in operator types.
- **Schematics:** Resolved an issue that caused clients that updated via 'Auto-Client-Update' to not be able to render maps.
- Schematics: Fixed issues in the 'Bulk import maps' feature.
- **Schematics:** Fixed an issue that caused some clients to freeze when changing item colours in design mode.
- User Qualifications: Credit deductions are no longer Audited by default.
- User Qualifications: Fixed a bug that caused all credit deductions to be actioned whenever any single trigger activated.
- Web Client: Removed access to entity types Operators are not allowed to see (based on their permissions).
- Web Client: Fixed issues in list sorting / filtering
- Web Client: Fixed PIN editing of users
- Web Client: Custom fields are now editable
- Web Client: Fixed a bug that allowed the created timestamp to be overwritten



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January 2018 - 18.0.0.12448

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Vector Schematics

An all new vector-based schematics rendering engine allows maps to smoothly zoom in & out forever while always looking crisp and professional.

* See the section "Vector Schematics – New Features in detail" for more information on the Improvements to Schematics.

Review Event Log Improvements

The new 'Review DBs' list lets you see and manage where your review records are.

Review queries are cancellable, and show progress.

Introducing review 'Categories' (formally known as Transitions). Filters and reports now let you easily select categories and sub-categories when looking for review

All external Databases are now created with a 'date range', this is encoded in the name, as Year_Quater. For example, 'IntegReview__2017_Q3_0' will only contain review records that were **generated** in July, August, September or 2017.

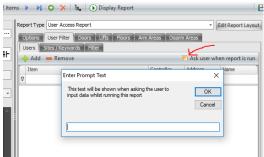
New Database clean-up actions can now efficiently 'obliterate' all old review in accordance with your data retention policies.

The Application Server now has a **Review Ram Cache** to improve performance, the size of this cache can be configured in Administration -> Servers.

Interactive Reports

Each filter / property of a report can now prompt the user running the report for a value each time the report is run.

This means low level operators no longer need the rights to edit reports to just change a single parameter each time the report is run.



Operator Action Confirmation

Specific Doors / areas / list of the above can now be configured to prompt for a confirmation before control is allowed.

Lists must be explicitly configured for confirmation (it does not happen just because it's items are configured as such)

This is configured with the new 'Requires Operator Confirmation' option in entity programming.

Application Layer High Availability



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Customers who require Enterprise grade reliability can now run multiple instances of the Integriti

Services at the same time. Controllers / Clients automatically connect to available nodes to ensure an "always on" experience. This feature requires additional licensing and is quoted on a per site bases. Contact Inner Range Professional services for more information.

Licence Plate Recognition

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Licence Plates can now be used as credentials when used with compatible CCTV Systems. *This feature requires a license.

Sky Reader – Mobile Application Support

Guards can check the validity of credentials from their Android device (IOS coming soon). When valid cards are presented to the phone, an image of the PhotoID attached to the card is immediately shown.

IP XMIT Service – New Communications Handler

When enabled, all XMIT review records are transmitted to the connected automation system. This feature requires no additional controller support, and is in addition to the native alarm reporting capabilities of the controller. This means if the controller has an alarm reporting comms task, and this feature is enabled, 2 messages would be sent to the control room for each alarm / restore. *This feature requires a license.

Quality of Life enhancements

- Communication Handlers & Integrations can now have a "Run Mode" so they can be easily disabled, and can have a Server affinity.
- Communication Messages now have additional **local** 'Created' and 'Sent' times. (in addition to the existing UTC ones)
- User Access Report Renamed "On Areas" and "Off Areas" tabs to "Arm Areas" and "Disarm Areas" respectively
- Report Configurations Added Display Names, Categories and Descriptions to fields in Reports that didn't previously have one.
- Format Strings: Added new pre-sets for numeric and date datatypes
- XML / REST Interface can now perform any 'control' action by POSTing the XML.
- XML / REST Interface can now perform queries by POSTing an XML filter.
- XML / REST Interface can now retrieve users without pictures by specifying **User_nolmages** as the type name.
- Commands invoked by operators from Edit Dialogs can no longer be 'accidentally' pressed when (for example) double clicking through a hyperlink. If the button is pressed within a second of the window coming to the foreground, a confirmation is required.
- Active Directory/CSV Import Transformations Gave the option to limit search results to a particular site (and its child sites) for the Name Lookup Transformation
- Enrolling / presenting SIFER cards at a SIFER Enrolment Station now saves the CSN with the card.
- Server heartbeat frequency is now configurable
- Diagnostic 'Log Viewer' now has a handy "Zip for Export" button.
- LAN modules now have a Battery Life property (years). The system automatically sets the 'Battery Needs Replacement' value to true when it is too old, based on the programmed installation date, and the configured ambient temperature.



- Send user Messages can now use 'System Settings' to customize which senders are used
- Send PIN can also have its message customized / Translated via 'System Settings'
- Integriti Web: Added support for Custom Fields to user editor
- Recent Activity Report (from the right-click menu of any entity): Has been upgraded to use the regular review control. While it can no longer be arbitrarily sorted by any column, it now has the usual review context menu's, and colouring.
- Schindler Lift HLI: Access review is now given its own category, and is tied to the user, so they can show up in activity / access reports.

Issues Resolved

- CCTV Viewer Added the actual error message to status message shown when starting video stream fails
- Review Filters in gatekeeper now show in 'real' Review windows that can be 'live' and are correctly coloured
- Format Strings: All date times (even custom fields) can now be formatted
- Cards: Fixed an issue that caused cards with 'all zero' data to be incorrectly sent to controllers (resulting in erroneous credential clashes)
- Item Editors Fixed a bug that resulted in the 'Unsaved Changes' warning being shown when nothing has changed for some windows that contain 'filters'.
- Fixed an issue that caused database restores from some previous versions to not allow login due to 'insufficient client licenses available'
- Fixed an issue that prevented the importing of some Integrated Devices
- Disabled Time & Custom Item change triggers now correctly obey the 'disabled' setting.
- Web Interface: Made it impossible to delete the "What" entity, leaving a blank permission row

Vector Schematics – New Features in detail

- New file format support in addition to the current raster-based file formats.
 - SVG Scalable Vector Graphics file format for map background, image elements and element presenters.
- Map Properties:
 - Background border colour and width.
 - \circ Zoom settings: max and min zoom value for the map.
- Element Properties:
 - Selectable specify whether the element can be selected through mouse clicks.
 - Zoom behaviour settings: This lets us control how the element will behave when the map grows and shrink during zooming in and out. The available options are.
 - Dynamic size: This attribute lets us describe how the element should size in relation to different zoom levels. Options available are:
 - 1. Element should size with background (the default);
 - 2. Maintain a constant size;
 - 3. Maintain a constant size within a specified zoom range.

Option 2 and 3 lets the element maintain a constant size even when the map grows and shrink during zooming in and out. For these two options the user needs to specify a zoom position. The zoom position tells where the element is going to stay on the map as the map grows and shrink during zooming. The options for zoom position in relation to the element are:



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1. Top - Left

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- 2. Top Centre
- 3. Top Right
- 4. Centre Left
- 5. Centre Centre: The default
- 6. Centre Right
- 7. Bottom Left
- 8. Bottom Right
- 9. Bottom Left
- 10. Specify A Position: For this the user will need to specify the Dynamic Size Zoom Position which are the mouse x and y position on the map.

In addition to specifying the zoom position, for option 3 the user will need to specify the zoom range for which the element size remains constant.

- Dynamic visibility: This attribute lets us control the visibility of the element in relation to zoom level. The options are
 - 1. Always Visible:
 - 2. Visible Within Range: The element will only be visible within a given zoom range. For this the user will also need to specify a zoom range.
- Element selection highlight:
 - o Box selection for rectangle, icon and image elements.
 - Border/line selection for ellipse and line elements.
 - The selection is highlighted using animating dashed white and black lines overlaying each other. The selection animation occurs for only a brief period of time.
- Smooth transition:
 - Smooth zoom transition.
 - Fade in and out transition for element selection.
 - Fade in and out transition for element visibility.
- The map rendering is resolution independent. A 100% view means the map will be completely shown to fill the viewable area irrespective of the size of the viewing window.
- Zoom in and out buttons.
- A text box to specify a zoom level in percentage.
- A zoom and position reset button which centres the map at 100% zoom.
 - A movable and expandable (drop down) layers menu placed on the top left corner of the map. By default, when opening a new map, the layer menu is shown only when layers are available.



Appendix

V18 REVIEW IMPROVEMENTS

V18 significantly improves the 'Review' Event log subsystem

It is now strongly recommended that Review is not stored in the 'main database'. Ensure the "Store Review in the Main Database" checkbox is NOT checked in the "Database Configuration" utility.

¹ Database Configuration		×
er2012	Search	Advanced
SQL Server 2012 (SP2 Developer Edition (64-bit) - v11	.0.5388.0 (SP2	Refresh
Database OK		Detail
Store Review in the M	lain Database	
Create / Update	Bac	kup
Advanced Options	Rest	tore
	Cancel	ОК

The Application Server will automatically migrate all historic review to the new system. Your system will continue to work as normal while this happens in the background, but historic review will not show up in filters / reports until the migration is complete. Migration typically occurs at approximately 100,000 events per minute.

Ensure enough **additional** disk space is available in SQL server to store all of the existing review **again** before upgrading to this version. (approx. 1GB per million review records)

If your old review was stored in external databases the additional disk space can will be freed once migration has completed. If existing review was stored in the main database, your DBA or Inner Range Professional services can 'shrink' your database to reclaim this space.



