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## Intelligent Insights Release Notes

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# 1 Document history

This document is valid for all Intelligent Insights versions. Only the release notes of the latest Intelligent Insight version are fully updated and contain updates for earlier versions as well.

Date	Version	Changes
2020-07-28	Intelligent Insights 1.0	Initial version.
2020-10-22	Intelligent Insights 1.0	Added comment when using widgets in BVMS Operator Client running on DIVAR IP.
2020-12-02	Intelligent Insights 1.0.1	Added release notes for Version 1.0.1
2021-10-07	Intelligent Insights 1.0.2	Added release notes for Version 1.0.2
2022-03-23	Intelligent Insights 1.0.3	Added release notes for Version 1.0.3
2022-07-21	Intelligent Insights 1.0.3	Added release notes for maintenance release 1.0.3.14 of Version 1.0.3

## 2 Intelligent Insights 1.0.3

### 2.1 Introduction

Intelligent Insights, version 1.0.3, introduces new functionalities and bug fixes. You require no license update when updating from version 1.0.2 to version 1.0.3.

### 2.2 Features in version 1.0.3

ID	
316370	Multi-dashboards - Permission and configuration
342375	UX/UI changes
345857	Support IVA subclasses of AI(DNN) detector

### 2.3 Resolved issues

Build	ID	Description
1.0.3.14	382027	<b>Changing the language of the web browser to any other language than English can lead to missing text in the UI.</b>

### 2.4 Known issues

Known issues are inherited from previous versions. If an issue is fixed, it appears in the list of resolved issues. The issue IDs can be used to relate an issue to a resolution.

Build	ID	Description
1.0.3.12	384997	Running anti virus software on the same hardware as IGI can interfere with the communication between IGI and the license manager causing license failure of IGI.
1.0.3.12	370552	When importing older IGI configurations from previous versions (for example: 1.0.1, 1.0.0.2) to 1.0.3 or after an upgrade, default admin users may not be able to access dashboards.
1.0.3.12	365764	List of active dashboards order changes when the web service restarts.
1.0.3.12	368314	After importing older or corrupted configurations, the operator dashboard may show "service is not responding" in widgets and does not stream.
1.0.3.12	368795	Installation fails on Windows server 2016 machine during starting the application. This is mainly observed in the virtual machine.

<b>Build</b>	<b>ID</b>	<b>Description</b>
1.0.3.12	369340	People count graph FSW does not recover from 'cameras are not connected or offline'.
1.0.3.12	352122	Double clicking dashboard cases without changes triggers the Change confirmation dialog.
1.0.3.12	347712	Change in camera status is not reflected within a reasonable time.
1.0.3.12	370646	Unable to access IGI website or adding a camera in IGI is always unreachable in certain IP range (for example 172.17.x.x , 192.168.x.x).
1.0.3.12	368796	Time weighted average for occupancy is not accurate.
1.0.3.12	369589	Data loss happened to all crowd counting widgets after windows update.

## 3 Intelligent Insights 1.0.2

### 3.1 Introduction

Intelligent Insights Version 1.0.2 introduces new functionality and several bug fixes. No license update required when updating from version 1.0.1 to version 1.0.2.

### 3.2 Features in Version 1.0.2

ID	
324308	Data Retention - 1 year (requires license for 1yr data retention time)
342381	Monthly and quarterly reporting (reporting for more than 31 days requires license for 1yr data retention time)
265645	API interface to Intelligent Insights database (requires license for Data API expansion)
336535	Test Bosch Inteox camera (Flexidome Inteox 7100i )

### 3.3 Resolved issues

Build	ID	
1.0.2.8 6	320382	Under certain circumstances occupancy counting use cases show inaccurate data.
1.0.2.8 6	320381	Under certain circumstances crowd detection uses cases with multiple crowd detection fields show incorrect data
1.0.2.8 6	315939, 312931	In certain scenarios the system show a invalid license message.
1.0.2.8 6	332994	Slow dashboard and full screen widget data loading
1.0.2.8 6	316613	Clicking another use case does not discard current use case changes
1.0.2.8 6	314624	In rare cases the crowd detection and occupancy widgets had intermittent gaps
1.0.2.8 6	316426	Under high load situations occupancy counting widgets showed different values across multiple dashboards

Build	ID	
1.0.2.86	315155	Camera remains online despite incorrect port number

## 3.4 Known issues

### Known issues

Known issues are inherited by previous versions. If an issue is fixed, it will appear in the list of resolved issues. The issue IDs can be used to relate an issue to a resolution.

Build	ID	Description
1.0.2.86	321343	On the day where DST begins or ends, use case count start time can't be set at the "DST start time" itself, e.g. in Germany summer starts on 28th of March at 02:00 AM, on 28th of March the count start time cannot be configured to 02:00 AM
1.0.2.86	321478	In case the local time of the Windows machine, where Intelligent Insights is installed, has to be changed, please follow the following procedure that Intelligent Insights uses the correct time: <ol style="list-style-type: none"> <li>1. Shutdown IntelligentInsights VM found in hyper-v manager.</li> <li>2. Change computer time ( timezone shall NOT be change )</li> <li>3. Turn ON Intelligent Insights VM via hyper-v manager.</li> </ol>
1.0.2.86	333232	Intelligent Insights stops streaming data, if there is less than 5 GB free local disk space on the machine, where Intelligent Insights is installed
1.0.2.86	333242	For countries with UTC xx:15 / xx:45 , the 24 hour widget's does not begin sharply at the selected time. There is a 15 minutes offset in the start time. Affected time zones: Nepal – Nepal Standard Time UTC+05:45, Chatham Island Standard Time UTC+12:45, Australian Central Western Time UTC+08:45, Eucla, Western Australia UTC +08:45
1.0.2.86	340681	The Data API configuration API shows empty crowd fields for crowd field configured in Bosch cameras.
1.0.2.86	343131	Running reports for certain granularities will fail short after the installation of the system, e.g. a report with a granularity of 30 minutes will fail if Intelligent Insights has not recorded data for 30 minutes.
1.0.2.86	320953, 329404	Intelligent Insights server, client and cameras have to be in the same time zone to show correct values. In case the time zone has to be changed on the machine, where Intelligent Insights is installed, the software has to be reinstalled after changing the time zone in order to show correct values.

Build	ID	Description
1.0.2.86	343484	When switching from summer time to winter time, the area fill level widgets are showing during the DST transition hours wrong data for one hour, Reports and dashboards are affected. e.g. in Germany the area fill level widgets shows between 2am and 3am on the 31st of October 2021 wrong data.
1.0.2.86	343208	It's recommend to use the https protocol when using threshold actions triggering actions in a Bosch camera
1.0.2.86	347404	If the OSS webpage does not load properly, please do a browser refresh (F5)
1.0.2.86	337853	In rare situations cameras might show the "connecting" status on the camera overview page after multiple imports via the important configuration function. It is recommended to use the "import configuration" function only after a fresh installation of Intelligent Insights.
1.0.2.86	349170	When changing the http or https connection port number of a camera via the camera webpage, make sure to change the port number in the Intelligent Insights camera configuration. The camera status shows wrong information, in case the port configuration is not matching and a camera sync is initiated by pressing the "Sync Connection" button.
1.0.2.86	332049	Bosch FLEXIDOME multi 7000i camera is not supported in Intelligent Insights 1.0.2
1.0.2.86	339798	In case 80% disk space is reached, the retention time logic will start to wipe out raw data (data of the 1st 31 days)
1.0.2.86	351556	After update to Intelligent Insights 1.0.2 or restarting the Intelligent Insights machine, the user interface might not be accessible for the first 60 secs. Please refresh the web browser after 60 seconds.
1.0.2.86	352218	After updating to Intelligent Insights 1.0.2 please refresh all clients connected to the Intelligent Insights system. Clients might show errors in case the web browser is not refreshed.



## 4 Intelligent Insights 1.0.1

### 4.1 Introduction

Intelligent Insights Version 1.0.1 introduces new functionality and several bug fixes. No license update required when updating from version 1.0. to version 1.0.1.

### 4.2 Features in Version 1.0.1

ID	
265642	Area fill level traffic light widget
275972	CTQ update. Higher number of data inputs per system and use case supported, higher number of events per second supported
251824	Enhanced Report Performance, more than 7 days reporting is supported

### 4.3 Resolved issues

Build	ID	
1.0.1.43	272869	<b>Changing the camera geolocation configuration requires a refresh of the dashboard in Intelligent Insights to show the updated camera position in the object positions widget</b>
1.0.1.43	273325	<b>Installation process can take long if a large disk space is allocated during the resources configuration. Reason is, that creating the Hyper-V virtual disk takes very long due to IT security reasons.</b>
1.0.1.43	273739	<b>It's not recommended to open the web user interface for a 24/7 observation on the Intelligent Insights server, it's recommended to use a separate client. It is recommended to monitor the memory consumption on the client and restart the web browser in case of high memory utilization.</b>
1.0.1.43	269336	<b>In rare circumstances cameras might be stuck in "connecting" status after a bulk import. Please open the camera settings page, change the camera protocol and press save to solve the issue.</b>
1.0.1.43	274014	<b>Under certain circumstances the dashboard has to be refreshed by pressing F5 or reload the browser if a camera lost the connection to the Intelligent Insights system and the connection it re-established.</b>
1.0.1.43	273655	<b>Under high load situations it might happen, that a report query times out and an error is shown, please repeat the query under normal load situations.</b>
1.0.1.43	282830	<b>Crowd or Counting Widgets does not stream when dashboard opened</b>

Build	ID	
1.0.1.43	283843	<b>Counter data not shown correctly when logging in as an Operator</b>
1.0.1.43	313164	<b>Intelligent Insights area fill level widget is not updated when a counter is changing</b>
1.0.1.43	313850	<b>Failure to install Intelligent Insights, if the host name is longer than 16 characters</b>

## 4.4 Known issues

### Known issues

Known issues are inherited by previous versions. If an issue is fixed, it will appear in the list of resolved issues. The issue IDs can be used to relate an issue to a resolution.

Build	ID	Description
1.0.1.43	313949	A report shows data from all counter tasks that have delivered data during the selected period. It is possible that the report shows counter tasks that no longer exist on the camera.
1.0.1.43	313742	Camera and IVA task name are only updated in reports and use case settings after a manual camera resync on the camera configuration page.
1.0.1.43	313974	Updating the use case configuration closes all open reports for the same use case.
1.0.1.43	315155	The camera port settings cannot be changed in Intelligent Insights after the camera is added to the configuration, please delete and add the camera with the corrected port settings.
1.0.1.43	284917	Intelligent Insights 1.0.1 introduces continuous data aggregation for high performance data reporting. During upgrade to version 1.0.1, the aggregation process can take more than one hour depending on the amount of recorded data. During this background process the system response time might be slow.
1.0.1.43	313986	When showing high frequent changing widgets in multiple browser tabs or on multiple clients, the widgets might not be in sync and show a small deviation due to different widget streaming starting times.
1.0.1.43	313970	In case of a network connection loss between the client and the server, the widget might show incorrect data after reconnecting to the server. In order to recover press F5 to refresh the browser window.
1.0.1.43	313971	In case of a network connection loss between the camera and the server, widgets might show incorrect data after cameras are reconnecting to the server. In order to recover press F5 to refresh the browser window.

<b>Build</b>	<b>ID</b>	<b>Description</b>
1.0.1.4 3	313996	After restarting the Intelligent Insights system, the system might show a not activated license for 100 seconds, to recover press F5 to refresh the browser window.
1.0.1.4 3	316331	Under overloaded clients or servers, dashboards might show different results on different machines. To recover the dashboard, reduce the load on the client or server and refresh the browser.
1.0.1.4 3	315785	Importing a configuration from version 1.0.1 into 1.0.0.2 is not supported.

# 5 Intelligent Insights 1.0

## 5.1 Introduction

Intelligent Insights 1.0.0.2 is the first Version of the Intelligent Insights product.

## 5.2 Features in Version 1.0.0.2

Intelligent Insights 1.0 processes Bosch video analytics metadata and visualizes the data in easily understandable / intuitive widgets for security operators, allowing them to quickly grasp the number of counted objects in a time range, a crowd situation, the fill level and occupancy of an area or any movement of objects. Thanks to the visualization of the data Intelligent Insights creates situational awareness and increases the security and safety of person in these areas. For post analysis the collected data can be visualized in reports and can be exported in file format. .

Intelligent Insights is a standalone product. The system can run as a standalone system and be accessed by operators via the web browser or the widgets can be integrated in a BVMS operator client.

## 5.3 Resolved issues

Build	ID	
n.a	n.a	<b>n.a.</b>

## 5.4 Known issues

### Known issues

Known issues are inherited by previous versions. If an issue is fixed, it will appear in the list of resolved issues. The issue IDs can be used to relate an issue to a resolution.

Build	ID	Description
1.0.0.2	280139	The Installation of Intelligent Insights cannot be completed if the time zone of the computer is in one of the following time zones: (UTC -05:00) Haiti, (UTC -05:00) Indiana (East), (UTC -03:00) City of Buenos Aires, (UTC -03:00) Punta Arenas, (UTC +10:00) Guam, Port, Moresby, (UTC +11:00) Bougainville Island.  In order to complete to installation, please change the time zone to a not affected time zone before starting the installation and change the time zone after finishing the installation process.
1.0.0.2	n.a.	Intelligent Insights is designed to be deployed in a secure IT environment. Corresponding standard IT security measures such as an activated firewall and installation of the latest security updates must be guaranteed.
1.0.0.2	221207	Under certain circumstances objects that are moving in straight line are not shown as a straight line in the object tracking widget

Build	ID	Description
1.0.0.2	227222	In older Microsoft Edge versions than 44.17763, the login screen is not visible when opening the Intelligent Insights URL, minimum Microsoft Edge Version is 44.17763
1.0.0.2	229642	When all crowd density fields are deleted in the camera, Intelligent insights still shows three crowd density fields
1.0.0.2	230639	In Windows 10 Enterprise 1709 and below, shortcut to Intelligent Insights - <a href="https://localhost">https://localhost</a> does not work. Use latest Windows 10 Enterprise update 1809.
1.0.0.2	232023	On Windows Server 2016 version 1607, Intelligent Insights shortcut ( <a href="https://localhost">https://localhost</a> ) can't be reached on all browsers. Access to system via <a href="https://&lt;ip address&gt;">https://&lt;ip address&gt;</a> works.
1.0.0.2	233938	If multiple system administrators change the system setting at the same time, it may cause inconsistencies in the configuration. It is not recommended that multiple system administrators are logged on to the system.
1.0.0.2	234033	Chinese characters are not supported in user and camera passwords.
1.0.0.2	234189	If the installer detects insufficient memory during installation, the installer might hang for multiple minutes and fail. Rollback will also take multiple minutes.
1.0.0.2	235103	In rare circumstances the update of a system or the installation might fail and request a restart of the machine.
1.0.0.2	235207	After a power failure of the Intelligent Insights machine some services might not start. After a planned restart all service are up and running.
1.0.0.2	235202	In rare circumstances the bulk import of multiple cameras does not work reliable.
1.0.0.2	257403	On Windows Server 2016 or Server 2019 Intelligent Insights widgets cannot be integrated in the BVMS Operator Client. A BVMS Operator Client running an a DIVAR IP unit cannot display the Intelligent Insights widget due to missing Microsoft Edge control on the Windows Server Operating system.
1.0.0.2	259607	Time synchronization does not work reliable after recovering from Windows sleep mode. Workaround, disable sleep mode in Windows OS settings
1.0.0.2	na.	Under high load situations Microsoft Edge and Mozilla Firefox browser might consume a lot of memory on the client machine. It is highly recommended to use the Google Chrome web browser.
1.0.0.2	240802	A camera cannot be added to an Intelligent Insights system Object tracking use case, if the VCA Operating mode is configured to "Silent VCA".
1.0.0.2	242806	In case of a client webbrowser connection loss to the Intelligent Insight system, e.g. caused by network disconnect, a browser refresh might be necessary

Build	ID	Description
1.0.0.2	251155	Special characters such as @ " ' % & / : < > ? @ [ \ ] ^ ` {   } +"; are not supported in the camera password field.
1.0.0.2	260281	Camera replacement via changing the IP-addresses in the Intelligent Insights camera list is not supported. Please delete the camera and re-add the camera.
1.0.0.2	264234	Installing Intelligent Insights on a single core machine is not supported.
1.0.0.2	263894	Minimum screen resolution for clients connecting to the Intelligent Insights is 1920(w) x 1080(h), text scale size and browser zoom level 100%. Lower resolutions can lead to presentation issues in the user interface
1.0.0.2	271246	Scheduled VCA operations mode (profile) not supported in Intelligent Insights 1.0
1.0.0.2	272869	Changing the camera geolocation configuration requires a refresh of the dashboard in Intelligent Insights to show the updated camera position in the object positions widget
1.0.0.2	273325	Installation process can take long if a large disk space is allocated during the resources configuration. Reason is, that creating the Hyper-V virtual disk takes very long due to IT security reasons,
1.0.0.2	273739	It's not recommended to open the web user interface for a 24/7 observation on the Intelligent Insights server, it's recommended to use a separate client. It is recommended to monitor the memory consumption on the client and restart the web browser in case of high memory utilization.
1.0.0.2	266544	In rare circumstances the geolocation information needed for the object positions widget cannot be retrieved from cameras. The widget might show a "camera in syncing" message but still showing objects on the map for the specific camera. Make sure that all cameras are using the right coordinate system according to the widget configuration.
1.0.0.2	269336	In rare circumstances cameras might be stuck in "connecting" status after a bulk import. Please open the camera settings page, change the camera protocol and press save to solve the issue.
1.0.0.2	273439	After a restart of the Intelligent Insights system, BVMS cameos do not automatically reconnect to Intelligent Insights, cameos have to closed an reopened.
1.0.0.2	274014	Under certain circumstances the dashboard has to be refreshed by pressing F5 or reload the browser if a camera lost the connection to the Intelligent Insights system and the connection it re-established.
1.0.0.2	255973	Under certain circumstance it might happen, that a camera is stuck in "connecting mode". To establish the connection to the camera, please change the connection protocol to the camera, e.g. from http to https and save the configuration changes.
1.0.0.2	273655	Under high load situations it might happen, that a report query times out and an error is shown, please repeat the query under normal load situations.

<b>Build</b>	<b>ID</b>	<b>Description</b>
1.0.0.2	n.a.	Installation: It's not recommended to install Intelligent Insights on a DIVAR IP unit or on the same hardware as the BVMS server, as the computer signature of the BVMS installation will change.
1.0.0.2	274800	When accessing the Intelligent Insights system without setting up a certificate in the Intelligent Insights system for a secure connection, the dashboard will stop streaming data after a certain time period. Refresh the web browser and accept the unsecure connection to restart data streaming.
1.0.0.2	n.a.	Intelligent Insights widgets can be integrated in BVMS Version 10.0 and above. Please make sure to follow the Windows OS update recommendations.