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CathexisVision 2020 Software Product Description and License Document

Contents

1. Introduction 3
2. CathexisVision Software Lifecycle 4
2.1 Product interoperability 4
2.2 Product support 4
3. Base Software Variants 5
3.1 Trial License 5
3.2 Lite (CLTE-10xx) 5
3.3 Core (CCOR-2001) 6
3.4 Professional (CPRO-2001) 6
3.5 Premium (CPRM-2001) 6
4. Camera Licenses 7
5. Analytics Features 8
6. Analytics Matrix 9
7. Add-on Feature Licenses 11
7.1 Map Licenses (CMAP-2000/3000) 11
7.2 Video Wall Licenses (CVGA-2001) 11
7.3 Failover Licenses (CFOR-2001 and CFOR-1001) 11
8. Integration Licenses 12
8.1 Integration License Models 12
8.2 Supported Integration Systems 12
9. Alarm Management Licenses 14
9.1 Alarm Management Gateway Server License (CAMG-1000) 14
9.2 Alarm Client License (CBAS-7100) 14
10. Maintenance Licenses / Camera Version Migration Licenses 15
10.1 CathexisVision 2018 and Later 15
10.2 Historical (pre-2018) 15
11. License Upgrade 16
12. License Transfer Conditions 17

1. Introduction

If you are reading this document, you are either already a Channel Partner of Cathexis, or are about to become one. We therefore welcome you to the family, and look forward to providing you with a world-class product and service.

This document outlines the various software items and licenses, and how they are used to satisfy the requirements for your solution.

The software licensing model from CathexisVision 2018 onwards, has changed from the 2017 (and earlier) code releases. It has been our intention to make the license process simpler and easier for the user to accurately predict the licenses required for their installation, even when the hardware has not been finalised.

A NOTE ON CAMERA CHANNELS

The CathexisVision software packages have **limits on camera channels**. A multi-head camera is physically a single device (camera) but it requires a camera channel for each one of the internal cameras. The same applies to an encoder: a 16-channel encoder will account for 16 camera channels on the CathexisVision software, even though it is a single device.

USEFUL LINKS

*To view **tutorial videos** on CathexisVision setup, visit https://cathexisvideo.com/resources/videos*

*Find answers to Cathexis **Frequently Asked Questions**: https://cathexis.crisp.help/en/?1557129162258*

2. CathexisVision Software Lifecycle

Cathexis Technologies releases a new major version of the CathexisVision software annually. The software releases are named according to the year that they are in use (for example, CathexisVision 2017).

The major software versions are released at the start of the third quarter of the preceding year. For example, CathexisVision 2017 is released in the third quarter of 2016.

This document does not exhaustively list all the licenses and features available. Since the product is continually evolving, new features and third-party integrations are being added with every release and sometimes with every quarterly update. For a complete list of currently available licenses please contact your Cathexis representative or consult the latest pricelist.

Please note the following regarding product interoperability and support:

2.1 Product interoperability

- All servers on a site should have the same product version installed (for example, CathexisVision 2017). Different product versions on the same site are not supported.
- The CatSite (CathexisVision) user interface will be able to connect to and view software running any service pack of the same version.
- The intention is for the user interface to be able to connect to a product one version earlier (such as CathexisVision 2017 connecting to CathexisVision 2016) but some features may not be available.
- The user interface may be able to connect to and view earlier products (2 or more versions earlier), but there are no guarantees – some or all features may not be functional.

2.2 Product support

- A product/software version will be supported with software updates until the end of the next calendar year. For example, CathexisVision 2020 (released in the third quarter of 2019) will be supported until December 2021 (in 2020 and 2021).
- Product support during the first year will include periodic software service packs, containing bug fixes, minor features, and additional integrations and camera drivers.
- Product support during the second year will include periodic service packs, containing critical bug fixes and additional integrations and camera drivers.

3. Base Software Variants

CathexisVision software is supplied in 4 variants. Releases prior to 2018 were licensed on a "per recording server" basis. This meant that one base server license was required for each recording server on the site together with a number of camera licenses.

The licensing model changed from CathexisVision 2018 and later. A single server license is required for a single site, no matter how many hardware servers are installed and connected to the same logical site. The installer is now able to change the hardware architecture to address changing/changed operational requirements (for example, the requirement for higher performance cameras or servers), without a change in the bill of materials for the software licenses and a consequent change in the price of the software.

The licenses for 3rd party integrations, excluding camera licenses, has not changed. Camera licenses are now determined by the variant of the product that is being installed. For example, a Premium site would require a single premium server license, and premium cameras licenses; whilst a Professional site requires a single professional server license and professional camera licenses. The sections below indicate the software variants and their major features.

3.1 Trial License

Once CathexisVision is installed, a trial license is automatically applied to the system. Features of the trial license include:

- Two permanent IP camera licenses.
- Maximum recording review time of two days (48-hours).
- Standard CathexisVision basic analytics.

Trial licenses to unlock additional features may be requested by emailing support@cat.co.za. To license the system further, consult the relevant licensing sub-section.

3.2 Lite (CLTE-10xx)

CathexisVision Lite software bundles are intended to provide amazing value single server solutions, and include many of the features available in our flagship software products.

- Allows for a single server.
- Up to 48, 3rd Party IP cameras.
- A maximum of 48 cameras may be added.
- Up to 3 "simultaneous client viewers". The client viewer includes anyone viewing cameras from the site via client software, web browser or mobile apps.
- Basic Event actions, including video recording, the control of outputs & integration devices and the ability to play a sound on an event.
- While we include the ability to send "technical alarms" to our alarm management capability, the user defined events cannot be transmitted.

- Includes a basic VMD algorithm included (intended for controlled lighting – indoors) with the option to purchase SmartVMD and other add on analytics.[i]
- A number of Lite packages are available. For example:
  - CLITE-1024 has camera licenses for 24 cameras. It is possible to add further camera licenses (up to 48 in total) using the CCOR-1001 camera licenses.
- The Lite software is not upgradeable.

3.3 Core (CCOR-2001)

CathexisVision Core software is designed for a single server environment up to 48 cameras.

- A single server recording solution
- Allows up to 48 3rd party I.P cameras.
- A maximum of 48 cameras may be added
- Up to 7 "simultaneous client viewers". The client viewer includes anyone viewing cameras from the site via client software, web browser or mobile apps.
- Includes the basic VMD algorithm included (intended for controlled lighting – indoors), with the option to purchase SmartVMD and other, more sophisticated analytics (Levels I, II or III).[ii]

3.4 Professional (CPRO-2001)

CathexisVision Professional software is designed for a multi-server site environment and allows up to 150 3rd party cameras:

- Allows up to 150 3rd party IP cameras.
- Allows up to 10 "simultaneous client viewers". The client viewer includes anyone viewing cameras from the site via client software, web browser, or mobile apps.
- Includes Basic and SmartVMD, and allows the addition of more sophisticated analytics (Levels I, II or III).[i]
- The PRO software allows the addition of failover servers for IP cameras[iii]. This requires the purchase of a failover server, a failover server license and a number of failover camera licenses (dependent on how many failover cameras are required).

3.5 Premium (CPRM-2001)

Our Premium software is designed for large sites with unlimited cameras, and has unlimited client viewer capability. It provides you access to:

- All of the CathexisVision suite features and,
- Allows the addition of more sophisticated analytics (Levels I, II or III).[i]
- Allows for the addition of failover systems and licenses.[ii]
- Automatically includes a site failover base license – CFOR-2001.
- Automatically includes a site map license – the CMAP-2000 license (see below for further explanation).
- Automatically includes a video wall license – the CVGA-2001 license (see below for further explanation).

4. Camera Licenses

Cameras are licensed using a single camera license. So, each 3rd party IP camera on a site requires one of the following licenses -- dependent on the variant of software you are running. The camera licenses may be applied to any server on a site for the complete site, and are allocated to cameras as they are added.

The licenses have been listed in order of ascending price. It makes best economic sense to purchase the correct license for your specific package requirement.

License	Type	Details
CLTE packages.	**Lite Software Package**	All but one of these packages come with embedded camera licenses that are provided at a discount. Should additional licenses need to be added to the LITE package, then a CCOR-1001 license may be purchased up to a total of 48 cameras on a LITE system.
CCOR-1001	**Core Camera License**	These camera licenses may be used on Core software (CORE-2001) packages or on Lite (CLTE) packages.
CPRO-1001	**Professional Camera License**	These camera licenses may be used on Professional (CPRO-2001), Core (CCOR-2001) or Lite (CLTE) packages.
CPRM-1001	**Premium Camera License**	These camera licenses may be used on Premium (CPRM-2001), Professional (CPRO-2001), Core (CCOR-2001) or Lite (CLTE) packages.
CLIC-2000 cameras	**Historical IP camera license**	These are historical IP camera licenses and were used with CathexisVision 2017 and software releases prior to this. These are equivalent to CPRM-1001 licenses and may be used on any of the packages listed, but (for new IP camera license purchases) it is more cost effective to purchase the correct IP license for the site.

Note:

1. Multi-headed cameras and cameras with multiple channels require only a single IP license.
2. The CatObserver monitor recording feature allows the recording of any monitor connected to any Windows server on the network, as if it were a network camera. One camera license is required.

5. Analytics Features

The following table details the availability of the CathexisVision analytics features. In the Analytics Matrix table, specific algorithms are grouped by analytics trigger type. Each algorithm is then indicated to be either included in the CathexisVision Package, or available for purchase as part of the CathexisVision Analytics Suites (I, II, III). The first year of release and inclusion of the algorithm in CathexisVision Packages is included.

☑ **Available Option within algorithm suite.**

■ **Available with license purchase.**

Notes:

1. The triggers are categorised.
2. Smart VMD is included with Professional and Premium packages, however a license is required on Lite and Core CathexisVision Packages.
3. Line Count is included with the VMS, however there is no trigger. The line count is only a number displayed on the screen showing the number of times an object has crossed the line. To trigger on speed, purchase Analytics level III and load Advanced Analytics.
4. The 'filter and track objects specialised ...' are not duplicated, they are under separate category options.
5. The counters are included with the VMS, but do not have triggers, just as in (3) a license is required. **Note:** the following counting licenses are required: a license for each counter camera, a base license per site, an Analytics license for each double line counter, and a counting license (one per direction).
6. The Background models are included, however a minimum of a Level I license is required to be able to use Dynamic Background.
7. License III includes the features of license II and I, license II includes License I features.
8. The Advanced Analytics suite includes basic and intermediate features, and intermediate includes basic features.
9. For Object Classification: video overlays and the object classification metadatabase are available in Basic, Intermediate, and Advanced, as well as Analytics 1, 2, and 3. Object Classification filters (humans, animals, vehicles etc) are available for event recordings in Advanced and Analytics 3.
10. CathexisVision has developed Analytics features to specifically meet the demands of the COVID-19 environment. These are Mask detection, people proximity detection, and occupancy all available in Analytics I,I, and III and Basic, Intermediate, and Advanced.
11. CathexisVision has also integrated with third party camera manufacturers to develop thermal detection capability, allowing the Cathexis Software to read temperatures in the wake of COVID-19. Thermal Camera integration is available in analytics III.

6. Analytics Matrix

	Algorithm Suite					Analytics License			
Trigger	**First Release**	**Single ALG**	**Basic**	**Inter-mediate**	**Advanced**	**Analytics I**	**Analytics II**	**Analytics III**	**Notes**
Motion Detection									**1**
Basic VMD Included in VMS	2015								**2**
Smart VMD (Lite/Core) eliminate flares track lighting changes (shadows)	2015	☑				■	■	■	
Line Crossing									
Simple Single Line crossing single or both directions	2015		☑	☑	☑	■	■	■	**3**
Line Count Included in VMS	2016								
Line Trigger	2015		☑	☑	☑	■	■	■	
Segmented Line	2015			☑	☑		■	■	
Double Line	2015			☑	☑		■	■	
Speed	2015				☑			■	
Filter and Track Objects specialised width & height filter	2016				☑			■	
Filter and Track Objects specialised direction filter	2016				☑			■	
Filter and Track Objects specialised speed filter	2016				☑			■	
Presence									
Simple Presence in an Area	2015		☑	☑	☑	■	■	■	**4**
Enter/ Exit Area	2015			☑	☑		■	■	
Time in Area (loitering)	2015			☑	☑		■	■	
Stop in Area	2015			☑	☑		■	■	
Queue Length		☑					■	■	
Still object (object left-object removed)	2015	☑					■	■	
Filter and Track Objects specialised width & height filter	2016				☑			■	
Filter and Track Objects specialised direction filter	2016				☑			■	
Filter and Track Objects specialised speed filter	2016				☑			■	

Counting*									
Top-Down Head Counter standard (no trigger) included in VMS	**2016**								**5**
Top-Down Head Tracker standard	**2016**	☑						■	
Background Model									
Adaptive Noise Suppression (Included in VMS)	**2017**								**6**
Dynamic Background	**2017**		☑	☑	☑	■	■	■	
Accurate Tracking (Included in VMS)	**2017**								
Fixed lighting Included in VMS	**2017**								
Find Motion in area in scene Included in VMS	**2018**						**Motion Search**		
Detect camera shift: defocus / covered included in VMS	**2017**						**Camera tamper**		
Object classification									
OC video Overlays and object classification MetaDB	**2020**		☑	☑	☑	■	■	■	**7**
OC filters (Human, animals, Vehicles) for event recordings advanced	**2020**				☑			■	
COVID-19 Analytics									
Mask Detection	**2020**		☑	☑	☑	■	■	■	8
Proximity	**2020**		☑	☑	☑	■	■	■	9
Occupancy	**2020**		☑	☑	☑	■	■	■	10
Thermal Camera Integration**	**2020**				☑			■	11

7. Add-on Feature Licenses

The CathexisVision suite provides several add-on licenses to enhance your product. These include:

7.1 Map Licenses (CMAP-2000/3000)

Two map license variants are available:

7.1.1 Site Map License (CMAP-2000)

This license enables interactive, hierarchical maps to be added to a site and allows ANY connecting client to view and interact with the map. This is most cost effective when there are numerous clients connecting to a site. This license is automatically included in the purchase of the Premium package (the CPRM-2001).

7.1.2 Client Map License (CMAP-3000)

This license enables clients to use maps for sites that do not have a site map license. This license is applied to the viewer software and is used by the viewer to connect to any site that does not have a site map license. This is more cost-effective for installations where there are lots of geographically dispersed sites that will have a limited number of client connections or viewers connecting to the sites.

7.2 Video Wall Licenses (CVGA-2001)

In 2017 and prior software releases, video wall licenses were applied on a “per-monitor” basis. This changed in 2018.

The CVGA-2001 license can be applied to any recording server on the site and enables any number of video wall monitors.

Note: The Video Wall software will only function in conjunction with a base software license.

7.3 Failover Licenses (CFOR-2001 and CFOR-1001)

Failover was introduced into CathexisVision 2016, and from CathexisVision 2018, failover is included automatically in any Premium site purchased.

In CathexisVision 2019 (and 2018) Professional sites, a failover base license is required (CFOR-2001) and a failover camera license is required for each camera on the site. These licenses need to be purchased in addition to the Professional software license.

CathexisVision 2016 and 2017 Premium sites need to purchase the failover licenses in addition to their existing licenses (as for the CathexisVision 2018 and later Professional site).

8. Integration Licenses

The CathexisVision software may integrate with various 3rd party systems (such as Access Control, Point-Of-Sale, Alarm Panels, Weighbridges, Logistics scanning systems and many others). There are some generic licenses available for particular categories of 3rd party equipment (for example Access control), but there are also specific licenses for unique integrations.

8.1 Integration License Models

Typically, a 3rd party product is licensed using one of two models:

Model Type	Details
Single License Model	There is a single license for the integration (for example the CALM-2000 that integrates with an alarm panel), and there is no dependency on the number of devices that compose the 3rd party product.
Base License Model	The more common license model is where there is a base license and a per device license. For example, the CPOS-2000 (base point of sale license) and the CPOS-1001 (per point-of-sale license). This allows for a scalable pricing solution which makes the integration affordable for both small and large installations. In the point-of-sale example, a base license is required for every installation, but then the number of device licenses is dependent on the number of installed point-of-sale systems.

8.2 Supported Integration Systems

The list of integrated 3rd party products is continually expanding and only some of the more common integrations are listed below. Both the number of products in the categories below, and the categories of integration are continually increasing. For a comprehensive list of available integrations, please contact support@cat.co.za or view the Cathexis Integrations web page:
http://www.cathexisintegrations.com/supported-integrations/

The following categories of systems are supported with our 3rd party integrations.

1. 3rd party analytics.

2. Access control systems:
    a. ACT4000,
    b. IMPRO IXP20, IXP220, IXP400,
    c. IMPRO Portal Lite and PRO solutions,
    d. Honeywell ProWatch,
    e. Lenel,
    f. Salto.

3. Alarm panels:
    a. Caddx NX8E,
    b. Cosmos, DSCT IT100 based,
    c. FSK Multi decoder 1,
    d. Galaxy G series, Paradox EVO192,
    e. Risco Lightsys,
    f. Texecom Premier 832, Premier 412 and Elite 168.

4. Elevators & Escalators:
    a. Otis

5. Fence management systems:
    a. Future Fibre Technologies,
    b. Gallagher,
    c. Moduteq,
    d. Nemtek,
    e. Optex Redwall,
    f. OptaSense,
    g. Senstar,
    h. Southwest Microwave,
    i. Stinger.

6. Fire panels:
    a. Technoswitch, Technoswitch TEC202,
    b. Ziton ZP2, Ziton ZP3.

7. General I/O solutions:
    a. Genesis Wireless PIR,
    b. Quido,
    c. Interceptor PRO,
    d. Cathexis EIO.

8. Automatic Number Plate Recognition.

9. Miscellaneous:
    a. InMotion Metal Detectors.

10. Money counters:
    a. Talaris Ntegra,
    b. Julong.

11. Parking solutions:
    a. Zeag

12. Point of sale: these are generally customised for the particular retail client.
13. Weighbridge solutions.

9. Alarm Management Licenses

The Cathexis alarm Gateway provides an extremely comprehensive multi-user alarm management capability for on-site, or multi-site, management of events or alarms.

9.1 Alarm Management Gateway Server License (CAMG-1000)

This license enables the Alarm Management Gateway on the CathexisVision software and database for a site or a control room environment. Typically, only one of these licenses is needed for a control room to manage alarms for an unlimited number of servers, cameras, or remote sites. The CAMG-1000 license comes bundled with a CathexisVision Professional Site license.

This software will create a unique database for the management and reporting of alarms, and user actions, and should be applied to any server on which the alarm database is to reside.

9.2 Alarm Client License (CBAS-7100)

This is the license required for each client or operator who is connecting to the Alarm Gateway.

Note: Clients who are viewing the site but not connecting to the gateway do not require this license. This license should be applied to the client machine. A client map license (CMAP-3000) is included with the purchase of a CBAS-7100 license.

10. Maintenance Licenses / Camera Version Migration Licenses

CathexisVision maintenance licenses ensure that a site is always up to date with regards to the latest features, and capabilities. Cathexis releases new software, with major feature additions, once per annum. If, for example, CathexisVision 2017 is purchased, the client is entitled to any update packs that are made available for CathexisVision 2017 including extra devices that are added to software (such as cameras & 3rd party integration devices) and bug fixes. These update packs are generated quarterly in the year of release (so for 2017 for CathexisVision 2017), and for the succeeding calendar year.

A maintenance license (purchased at a nominal cost) allows migration to the next release of software, with all the additional features that will be available in the new software release.

10.1 CathexisVision 2018 and Later

From CathexisVision 2018, the year-based migration license has been replaced with the CCVM-1001, which can be applied to any year. If the software is to be upgraded from 2017 to 2019, then two of these CCVM-1001 migration licenses are required per camera.

If CathexisVision 2017 has been purchased, and new camera licenses purchased during succeeding years (2018 or later), these new cameras do not require a camera migration license should the system software be upgraded to CathexisVision 2018. This reduces the overall cost of ownership of the CathexisVision software range.

This licensing system ensures that the maintenance costs are equitably priced. These “camera version migration licenses” (CCVM-1001s) may be applied to the master unit on the site, and shared across the entire site. Camera version migration are covered in more detail in the user manual.

10.2 Historical (pre-2018)

From CathexisVision 2015 up until 2018, the maintenance licenses are applied on a per camera basis and a per year basis. For example, a camera migration license to allow the upgrade from CathexisVision 2015 to CathexisVision 2016 would be CCVM-2016, and one of these would be required for each IP camera.

11. License Upgrade

If a site package upgrade is required, then a license request file (.rqst) from each server on the site will be required. These files must be sent to support@cat.co.za for the upgrade process. These licenses will be cancelled and credited against the cost of the new upgraded CathexisVision package licenses. A pack file will be returned for each server request file with the new licenses applied.

12. License Transfer Conditions

Please note the following policy conditions for transferring licenses.

1. A license may be transferred from server (one hardware platform) to another server within the same site, within 12 months of purchasing the license. This is limited to 1 transfer per purchase.

2. For the purposes of this license agreement, “server” refers to a physical server or a virtual machine hosted on a physical server.

3. A server is considered within its maintenance period (referred to as in “maintenance”) if:
   a. The server has valid and “up-to-date” camera version migration licenses (CCVMs) for all cameras on the server and servers on the site (where there are multiple servers).
   b. “Up to date” in (a) above means that there are sufficient camera version migration licenses (CCVMs) installed on all servers on the site, to allow a fully functional update to the latest formally released software on the Cathexis web server (for example CathexisVision 2020 when CathexisVision 2020 is the most recent software release on the web site).
   c. On a site with multiple servers, each server must be “in maintenance” for the site to be “in maintenance”

4. If the site is “in maintenance”, the licenses on a server may be transferred to another system on the original site, for the duration of the maintenance period (whilst the system is “in maintenance”). This is limited to 1 transfer of licenses per year per server.

5. If licenses need to be transferred from one server on a site, to another server on site, because of a hardware failure, and the server (or site if there are multiple servers) are not “in maintenance” as defined in (3) above, sufficient CCVMs need to be purchased to put the server (or site as is applicable) “in maintenance”, before the transfer may take place.

6. If a new hardware platform is installed that requires different licenses (not those originally purchased), then these must be purchased separately. The old licenses are no longer transferable or valid.

7. Transfers are performed on request via email to support@cat.co.za.

8. Cathexis may request the completion of a license transfer request form.

9. Cathexis may decline the transfer of a license without disclosing the reasons for doing so.

[i] Enhanced analytics has been added in CathexisVision 2015.
[ii] Failover has been added in CathexisVision 2015.