

# Ecne Software Solutions

Empowering schools. Enhancing Safety. Ensuring Compliance.





## Contents

Protection: <b>Innovatively</b>	
ObscureIT™	2
PhotoNav™	4
GuardedGallery™	6
PDIMS™	8
Protection: <b>Safely</b>	10
Protection: <b>Legally</b>	12
Protection: <b>Morally</b>	14
Protection: <b>Easily</b>	16
About Ecne	18

Protection: legally, morally, easily



# Ecne – Key Features

## Our Proprietary Technology

Ecne's unique technology ensures image management is efficient, safe and convenient.

## Protection: Innovatively

### ObscureIT™

Immediate auto-anonymisation of photographs in line with current consents. When consents change, images are reprocessed.

Processed images



Twitter Instagram



Facebook Official Press



Tiktok

**ObscureIT™** takes a complicated, time-consuming responsibility and makes it friction-free.

Auto-anonymisation of images when consent expires. This allows you to use images even after some individuals in them have left.






# Ecne – Key Features

A study from Stanford University and security firm Tessian found that 88% of all data breaches are caused by employee mistakes.

Publish image ✕



Intended purpose  
Publish (consent) ▾


Publish platform  
Press ▾

Publish date  
04/06/2024

Notes

Publish

Publish image ✕



Intended purpose  
Publish (consent) ▾

Publish platform  
Tiktok ▾

Publish date  
04/06/2024

Notes

Publish

By using our **ObsureIT™** process, you can be confident in your usage of any images anywhere.

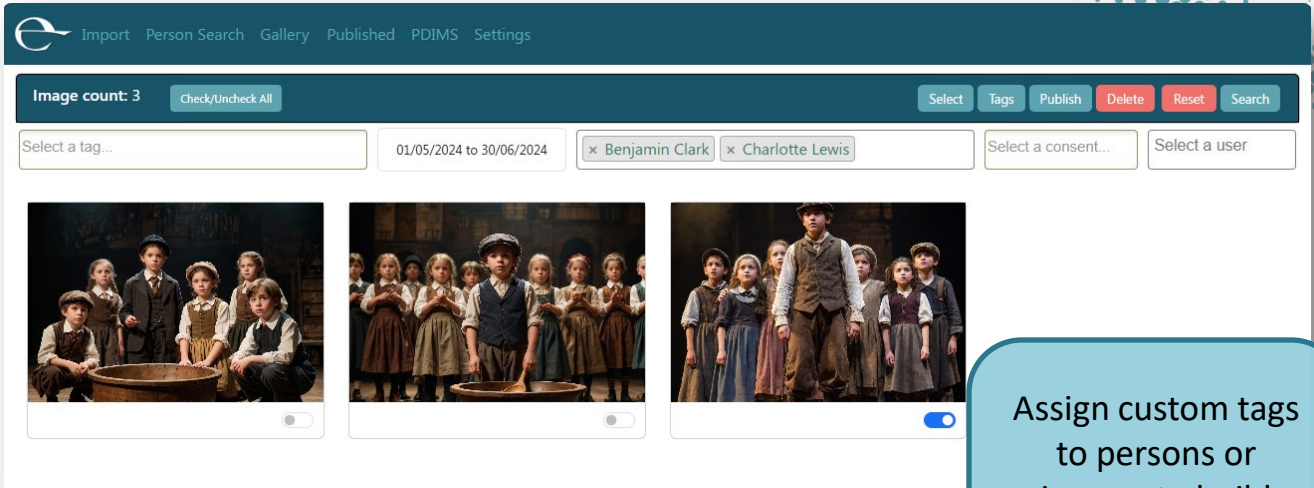


# Ecne – Key Features

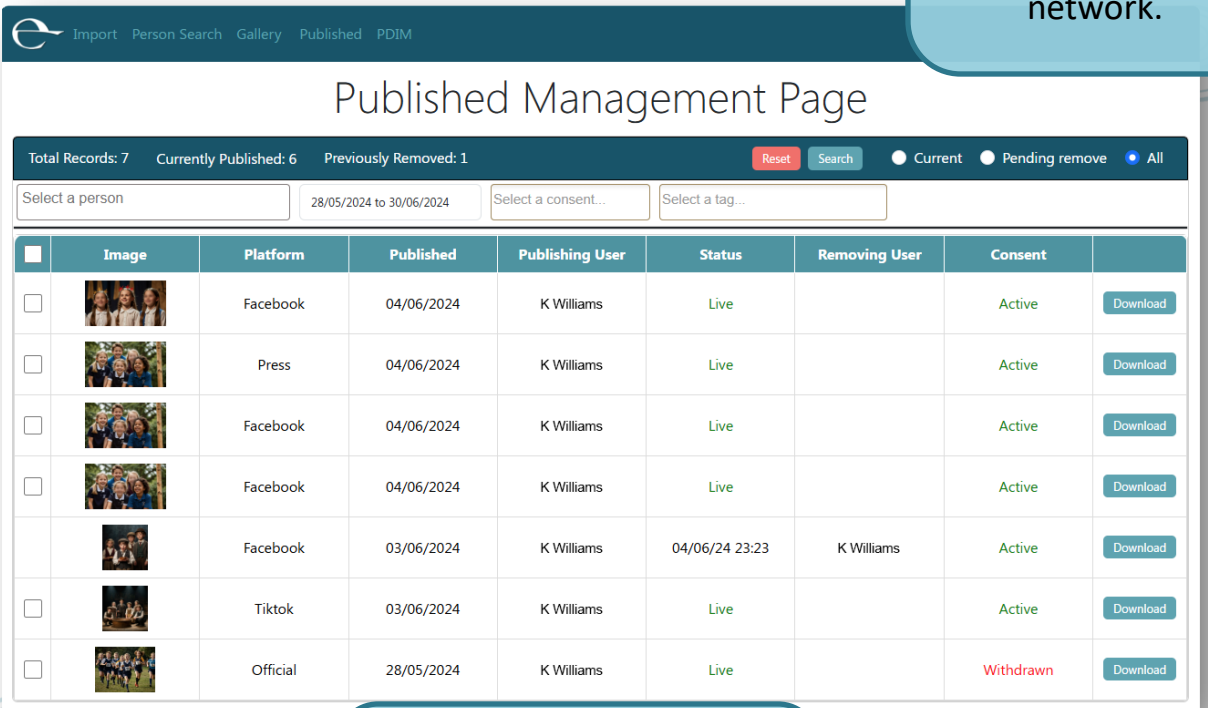
## Protection: Innovatively

### PhotoNav™ Image filtering

Navigate your images with ease. Apply bespoke tags and instantly view all relevant pictures



Assign custom tags to persons or images to build your own mapped network.



PhotoNav™ management system allows total tag customisation and control, enabling advanced filtering.



# Ecne – Key Features

**PhotoNav™ Image filtering** means you can easily find the images you want – whether of a trip, an extra-curricular group or individual people.

Person Management Page

Filter Groups - Person Count: 12

Buttons: Delete, Year Update, Add/Remove Tags, Download PDF, Consent toggle

Name search... Year Select a consent... French Paris Trip Reset

<input type="checkbox"/>	Name	UPN	Year Group	Facebook	Instagram	Official	Press	Tiktok	Twitter
<input type="checkbox"/>	William Allen		11	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Sophia Anderson		8	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Noah Brown		12	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Emma Davis		8	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Isabella Harris		9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Evelyn King		7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Ava Martinez		10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Liam Smith		10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Mia Thomas		11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	James White		Staff	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Elijah Wilson		9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Michael Wright		7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Find and view all the images you have of a particular student. Perfect for special celebrations or to share with parents who cannot allow sharing online.





# Ecne – Key Features

## Protection: Innovatively

### **GuardedGallery™**

Secure cloud storage for images with customisable access and a full audit history.

**GuardedGallery™** uses advanced encryption to ensure the safety of all images.



Customisable User Access Controls means that you can decide who in your school or Trust has the ability to view, modify, use or delete specific images.









# Ecne – Key Features



User access and activity audit gives you an immediate, thorough overview of what images are being used and accessed and by whom.

#	Date	Event	Event Type	User
11	3rd June 2024, 13:51:22	Image published	To Facebook on 3rd June 2024	K Williams
10	3rd June 2024, 13:37:21	Image processed		A Arden
9	3rd June 2024, 13:37:17	Identified in image	 Isabella Harris	A Arden
8	3rd June 2024, 13:37:16	Identified in image	 Michael Wright	A Arden
7	3rd June 2024, 13:37:16	Identified in image	 William Allen	A Arden
6	3rd June 2024, 13:37:15	Identified in image	 Elijah Wilson	A Arden
5	3rd June 2024, 13:36:11	Image scanned		A Arden
4	3rd June 2024, 13:26:24	Image Tag removed	2024 (Retired)	C Ledger
3	30th May 2024, 16:45:50	Image Tag added	2024 (Retired)	C Ledger
2	30th May 2024, 16:45:50	Image Tag added	Oliver Musical	C Ledger
1	30th May 2024, 16:42:06	Image uploaded		C Ledger

All time date stamps for every interaction with the image

Detailed image and user audit history.





## Protection: Innovatively

### Personal Data Image Management System (PDIMS)™

SAR fulfilment assistance. All images of a Data Subject – along with storage and usage details – in a complete audit pack.

**PDIMS™** Produces a comprehensive pack so the Data Subject can see what image data you have of them, why you have it and what it is being used for.



In moments, **PDIMS™** provides a complete audit of all images of a Data Subject, the usage details of the images and redacts any other face personal data.

# Ecne – Key Features

**PDIMS™** ensures that when you receive SARs, you immediately have all image-related data collated in electronic and paper formats as needed.



Organising, auditing and keeping up to date all images in the event of a SAR is a massive administrative task. **PDIMS™** supports making your accountability and transparency a breeze.

Subject Access Requests legally require information about any photographs you have stored or used in which the subject is identifiable. **PDIMS™** allows you to handle this effortlessly.



## Protection: Safely

Ecne has developed through a 'Security and Safety by Design' approach. Security and safety of all information is our highest priority:

**Storage.** Data is safely stored within a fortified cloud infrastructure.

We uphold the highest possible standards of security, exceeding government recommended guidelines.

**Encryption.** All data is protected with advanced encryption technology at rest and in transit.

**Access Control.** We encourage that a 'Least Privilege' model is adopted. Ecne user rights are completely customisable, giving schools total control over each user's access.

**Audit.** Full user and data audit history.

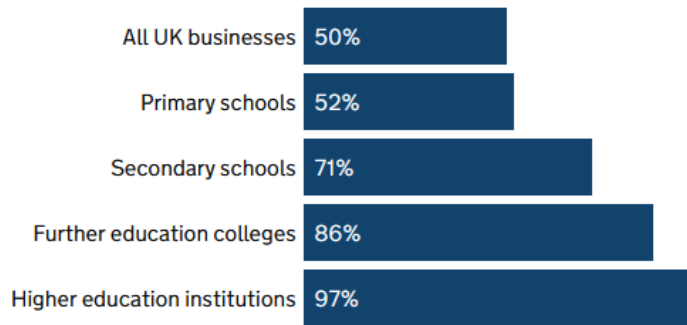


## Schools are at risk of cyber attack -

According to the Department for Science, Innovation and Technology, all types of education institutions are more likely to have identified cyber security breaches or attacks in the last 12 months than the average UK business.

<https://ico.org.uk/>

**Figure 2.1: Percentage of organisations that have identified breaches or attacks in the last 12 months**



<https://www.gov.uk/government/statistics/cyber-security-breaches-survey-2024/cyber-security-breaches-survey-2024-education-institutions-annex>

The education and childcare sector accounted for 14.44% of all reported data breaches last year.

562 data breaches last year involved children’s data.

<https://www.edtechinnovationhub.com/news/uk-report-reveals-high-data-breaches-in-edu>



## Protection: Legally

Ecne provides a holistic framework for legal compliance of image processing. It securely stores and manages up-to-date consents, ensuring no unlawful images can be published which may result in accidental data breaches/exposure:

**Anonymising.** Images automatically anonymised through the use of **ObscureIT™**, in line with live consents.

**Consent.** Consents can be changed and withdrawn at any time. Ecne software manages any resulting reprocessing of images and removal of published images as necessary.

**Subject Access Requests.** Using **PDIMS™**, all currently published and stored images relating to the subject, including those shared with other data-handlers and those processed under non-consent basis, are presented in an electronic, printable format, within seconds.

If someone can be recognised from a photograph, according to the ICO, it is usually considered to be personal data. This means they are subject to the general processing obligation imposed by GDPR.

As with all personal data, it is essential that you choose a valid reason ('lawful basis') for using it.



# Ecne – Key Features

<https://www.gov.uk/guidance/data-protection-in-schools/dealing-with-subject-access-requests-sars>

A Subject Access Request (SAR) is a type of information rights request. A SAR lets people access a copy of the personal data a school holds about them or someone they have parental responsibility for.

The ICO advises that ‘good data storage and retention policies make it easier to identify personal information’ to fulfil a SAR.

**PDIMS Case Builder**

External Ref:

Date of request: 28/05/2024

Add notes:

Data Subject:

Data Requestor:

Notes:

Create

Ecne’s record-keeping ensures legal compliance with data protection laws while also fostering trust with parents, students and staff.

**Schools are at risk of legal action** – simply search ‘education data breach lawsuit’. There are several pages of No Win-No Fee solicitors offering to take on cases against schools.



## Protection: Morally

All individuals have the right to make choices about the information and images that are out in the world about them. Curating your digital footprint becomes more important with each passing year: employers conduct social media investigations as standard interview procedure; faces become our passwords; our lives move online.

It is undeniable, however, that for some individuals, images are a much greater safeguarding risk. Consider:

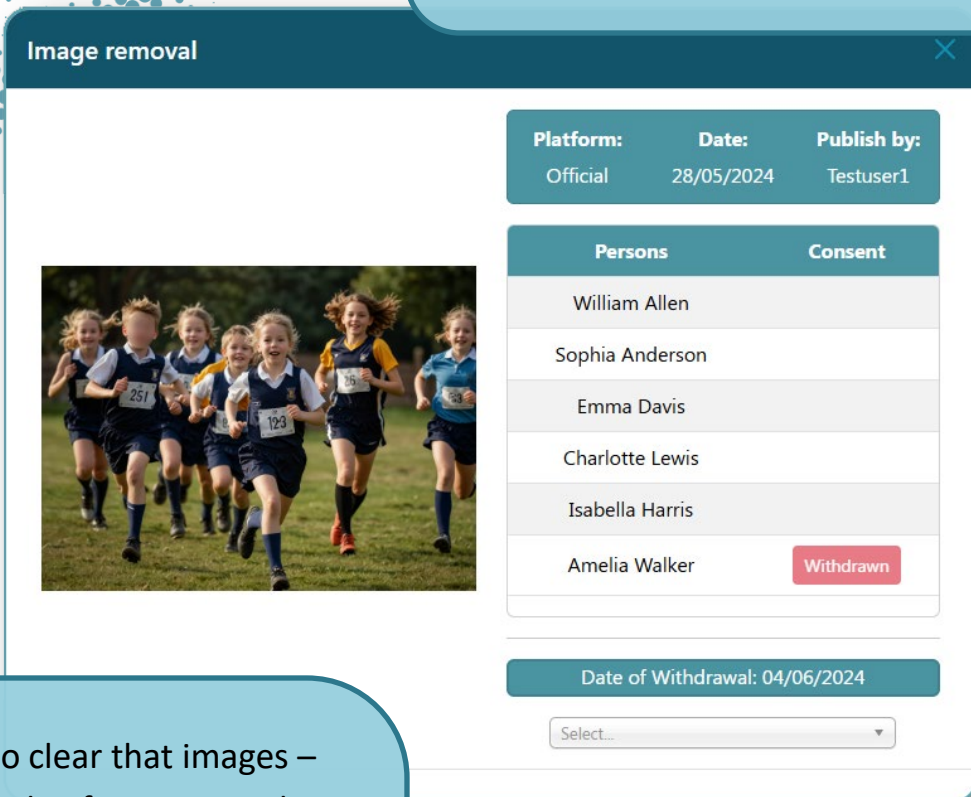
- Adopted, Looked After or At Risk young people and vulnerable individuals and families.
- Transgender or gender diverse individuals
- Victims of cyberbullying
- People suffering with body dysmorphia and/or eating disorders

Data is valuable to criminals, especially personal data, this includes images. Images may be used for malicious purposes such as profile-building for identity theft, digital kidnapping, cyberbullying, and manipulated by AI for all manner of distasteful misuse.

# Ecne – Key Features

'IT systems at around 330 schools were hacked last year — and experts warn sensitive child information and pictures may have been sold online to paedos.'  
*The Sun, 9 May 2024*

Image removal ✕



Platform:	Date:	Publish by:
Official	28/05/2024	Testuser1

Persons	Consent
William Allen	
Sophia Anderson	
Emma Davis	
Charlotte Lewis	
Isabella Harris	
Amelia Walker	Withdrawn

Date of Withdrawal: 04/06/2024

Select...

It is also clear that images – particularly of young people – can be misused by criminals.

Professor Alan Woodward, computer security expert at the University of Surrey, said: “These hackers chiefly do it to make money, which leads to grim thoughts of where are they going to make money from data on children.”\*

\*<https://www.thesun.co.uk/news/27831561/pupil-images-sold-paedos-school-data-hack/>

<https://bateswells.co.uk/updates/ico-warns-schools-about-use-of-childrens-images/>

The ICO reprimanded two different schools for sharing photographs of adopted children without consent.





## Protection: Easily

We know that MAT and school staff are juggling many priorities, so it was important to create Ecne with school processes in mind, with personalisation so each school or MAT gets the experience they need:

**Easy and efficient.** Intuitive dashboards include a task list on the home page. Removes concerns about human error with automated responses to changing or expiring consents.

**Personalised.** At a school or Trust level, choose your consent renewal periods, granular consents, data retention periods, etc. The dashboard is also customisable.

**Filtering.** Using our **PhotoNav™** technology, you can apply bespoke tags and instantly filter all images and persons, using tag combinations, to find exactly what you want.

**Consent Lists.** Printable, customisable lists of consents for classes, years and other groups for school trips, etc.

**Support Team.** Saves you time if you have a query or request.

**Anonymisation.** Using **ObscureIT™** technology, automatic image process and reprocessing based on real-time consents.



# Ecne – Key Features



Select a person

3		Isabella Harris	Remove
4		Harper Hall	Remove
5		Emma Davis	Remove
6		Alexander Young	Remove
7		James White	Remove
8		Amelia Walker	Remove
9		Charlotte Lewis	Remove

Save Publish Cancel

Our development team are currently working on a number of innovative and enhancing projects that will be added to the Ecne software suite in the near future.

We would love to respond to your feedback as a Beta Test Founding Member and mould the Ecne software to your specific needs.



## About Ecne

At Arc Digital Safeguarding our Ecne software suite has been developed, bringing together our experience and research in cyber security, education and safeguarding in response to the ever-mounting threats and legal obligations weighing down schools and MATs.

Our passion has always been to keep students safe, keep staff safe and keep schools safe.

We understand the difficulties faced by schools in the digital revolution, forced to rapidly grow their digital infrastructure to keep up with the unending wave of technological requirements, all against a backdrop of falling budgets and rising pressure.

Schools are increasingly targeted by cyber criminals intent on gaining the vast amounts of confidential and sensitive data held by schools. We are all too aware of the types of valuable data sought by cyber criminals and inside bad actors and how it can and is being used.

It is widely reported that around 90% of all data breaches result from human error. In many cases, systems and procedures are insufficient and/or overworked staff make understandable but costly mistakes exposing personal data.

At the same time, solicitors firms are increasingly offering no win - no fee support for cases involving Educational Data Breaches.





Having a child made me much more aware of digital footprints and how we use (and misuse) images. Images which, in some cases should never have been put onto the internet, may be used in identity theft, cyber bullying and even scraped and misused through AI. In a world where your face is increasingly your password, it became clear to us that images of faces need to be used with great care.

It was from here that I began to see much more clearly how difficult it was for schools to realistically keep image data safe. We began to work on a solution that would allow schools to easily:

- Manage and maintain accurate consent records
- Securely store and maintain audits of all image activity and uses
- Ensure no accidental data exposure occurred.
- Ensure the privacy rights of the parents/guardians, staff and children was upheld.

From there we put together a small team of cyber security experts and educationalists for Arc Digital Safeguarding to develop a bespoke and world first software suite to manage consent in real-time, live tracking of legal data exposure, auto-anonymisation, and much more.

Legislation can be confusing, compliance time-consuming and the responsibility weighty. Ecne has been built from the ground up with security and safeguarding at its core, focused on providing protection – for students, staff and schools – legally, morally and easily.



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