

The Registry

Highlights 2024



Registration Services

- Responsible for maintaining the RIPE Registry and allocating and assigning IP addresses and AS Numbers.

Member Services

- Personalised support to members, applicants and others who use our services. This includes responding to general queries, invoice questions, and processing membership applications, administrative and contractual changes.

Registry Monitoring

- Maintain the accuracy of the RIPE register by checking that the information provided complies with RIPE policies.



The Registry				Technology		
Total budget	2,300	1,350	1,350	2,350	1,550	700
9,600	↑	↑	↓	↑	↓	↓
5,000						
Actual expenses	2,306	1,473	1,284	2,367	1,445	634
9,509						
5,063	Registration Services	Member Services	Registry Monitoring	LIR Portal	RPKI	RIPE Database
-1.3%						

MEMBERSHIP OVERVIEW

All numbers are as of 31 December 2024. Please note that one member can hold more than one LIR.

19,993 (- 84)

Total number of active members

957 (- 10)

New LIRs

15,381 (+ 100)

Members with an IPv6 allocation

20,991 (- 579)

Total number of active LIRs

120 (+ 1)

Member countries

TOP 10

Members by country

DE	2,233
GB	1,977
RU	1,418
FR	1,238
IT	1,137
NL	1,127
ES	901
CH	720
PL	664
TR	591

TOP 10

New members by country

DE	85
GB	78
IR	69
TR	61
FR	48
IT	43
RU	43
NL	42
ES	30
CH	27

TOP 10

LIRs by country

DE	2,323
GB	2,047
RU	1,474
FR	1,306
IT	1,190
NL	1,179
ES	942
CH	744
IR	700
PL	688

CLOSURES INITIATED BY



196 the RIPE NCC
1,340 members

REASONS FOR CLOSURE BY THE RIPE NCC



9 Untruthful information
29 Unresponsiveness
5 Bankruptcy
153 Non-payment

952 new LIR applications cancelled

Internet Number Resources Overview

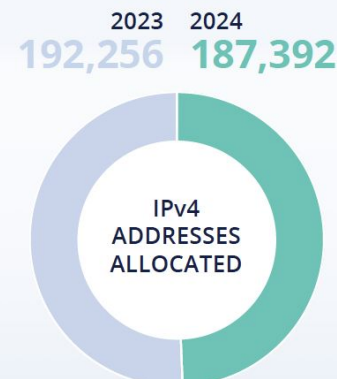
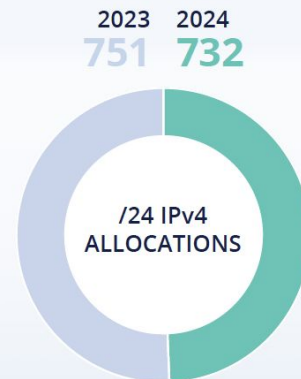


IPv4 /24 ALLOCATIONS BY COUNTRY

89	IR
61	LT
52	DE
50	GB
40	FR
36	RU
34	IT
30	TR
25	NL
315	Other

ALLOCATIONS AND ASSIGNMENTS

IPv6	1,116	0	IPv6 anycast assignments
		1	IPv6 temporary assignment
		22	IPv6 assignments to IXPs
		68	IPv6 allocation extensions
		261	IPv6 PI assignments
		764	IPv6 allocations
IPv4	773	0	Addresses allocated from IANA's Recovered IPv4 Pool
		18	IPv4 temporary assignments
		23	IPv4 assignments to IXPs
		732	/24 allocations
ASNs	2,205	0	temporary 16-bit assignments
		4	temporary 32-bit assignments
		25	16-bit assignments
		2,176	32-bit assignments



RIPE Labs

IPv6 Stockpiling: A Trojan Horse in Our Midst? [Read more](#)

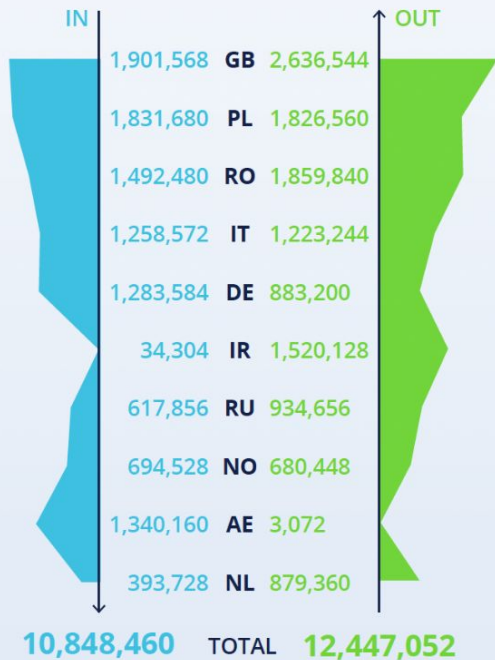
RIPE Labs

Schrödinger's IPv6 Cat [Read more](#)

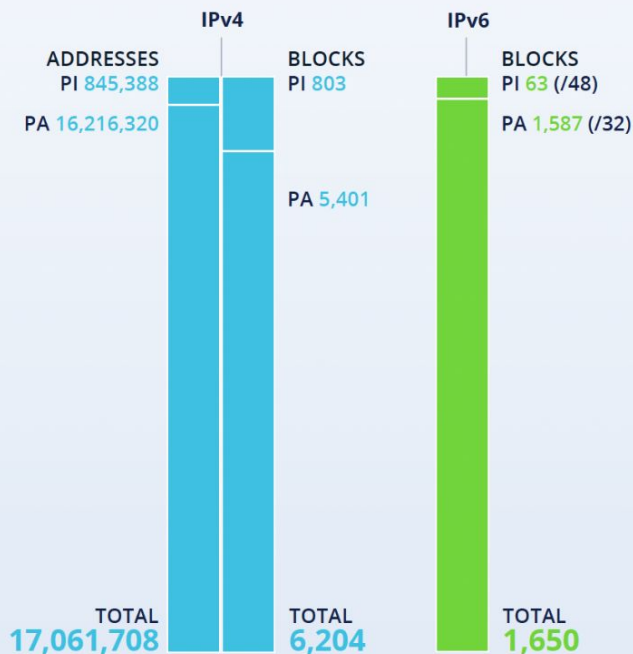
Transfers Overview



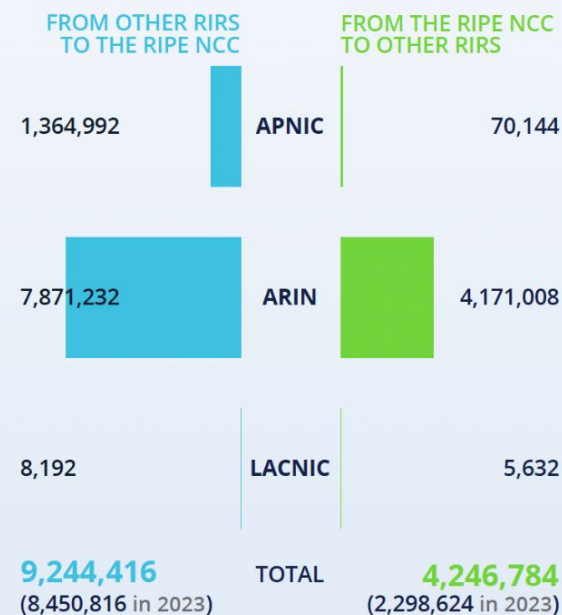
INTRA-RIR TRANSFERS BY COUNTRY - TOP 10 (IPv4 addresses)



TRANSFERS WITHIN THE RIPE NCC'S SERVICE REGION

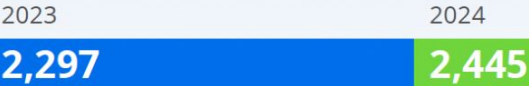


INTER-RIR TRANSFERS (IPv4 addresses)





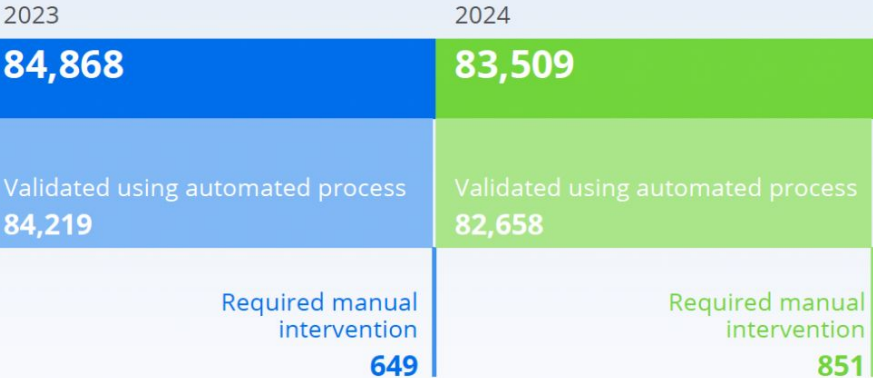
ARCs (Assisted Registry Checks) completed



Abuse-c ROLE objects created and/or updated



Validated abuse-c email addresses



[READ MORE](#)



REPORTS RECEIVED VIA THE ABUSE FORM

TOTAL
380

ABUSE-C VALIDATION INVESTIGATIONS

TOTAL
2,366

841 LIR accounts

774 LIR resources

751 End Users

2FA ROLLOUT

On 27 March 2024, two-factor authentication (2FA) became compulsory for all RIPE NCC Access accounts. This allowed us to increase the security related to these accounts and to therefore diminish the risk of hijacks. This was also a direct response to a security breach that involved several RIPE NCC Access accounts being hijacked.

SECURITY INCIDENTS

Security incidents are detected on the basis of audits performed, alerts from our security monitoring tooling and external reports.

INFORMATION SECURITY INCIDENTS

IN 2024

- 0** Crisis (Priority 1)
- 1** Major Incident (Priority 2)
- 5** Unexpected Incidents (Priority 3)
- 0** Incident (Priority 4)

INFORMATION SECURITY REPORTS

We encourage the reporting of vulnerabilities in line with our Responsible Disclosure Policy.

IN 2024

- 79** Reports were relevant
- 239** Security-related reports received

[READ MORE](#)

HIJACK INVESTIGATIONS

IN 2024

- 214** Hijack investigations
- 16** Reports to the police
- 6** Due diligence warnings (official warnings)
- 5** Disputed transfers
- 9** New membership applications blocked*
- 2** SSA terminations*

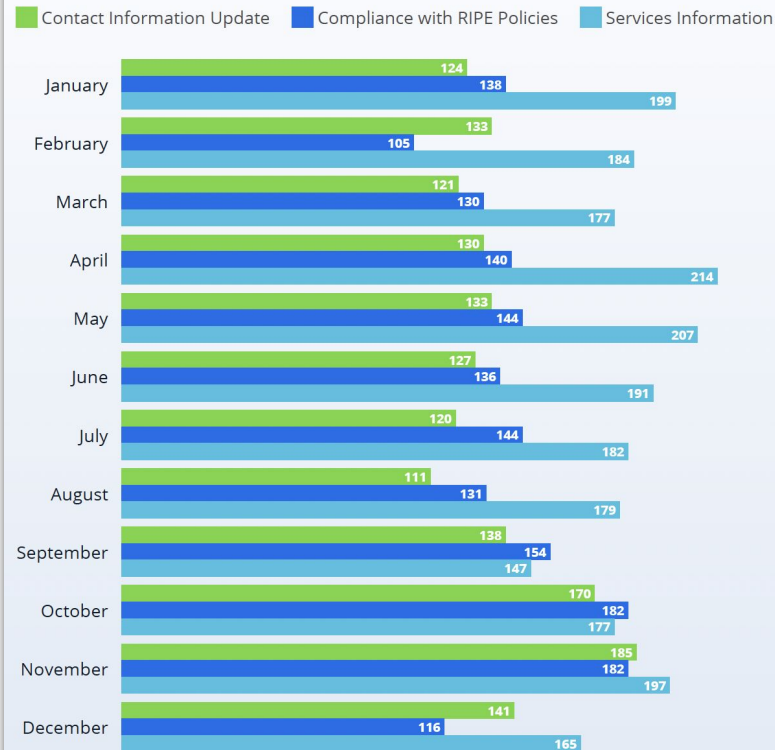
*Provision of untruthful information.

Assisted Registry Checks (ARCs)



- 2,445 ARCs completed
- 5,500 Corrective actions updating
 - contact information (e.g. legal address, email),
 - ensuring compliance with RIPE Policies (e.g., Abuse-c policy, proper registration of address blocks)
 - clarifying services information related to RIPE NCC offerings like
 - RIPEstat, RIPE Atlas and the RIPE NCC Academy

ARC Outcomes 2024



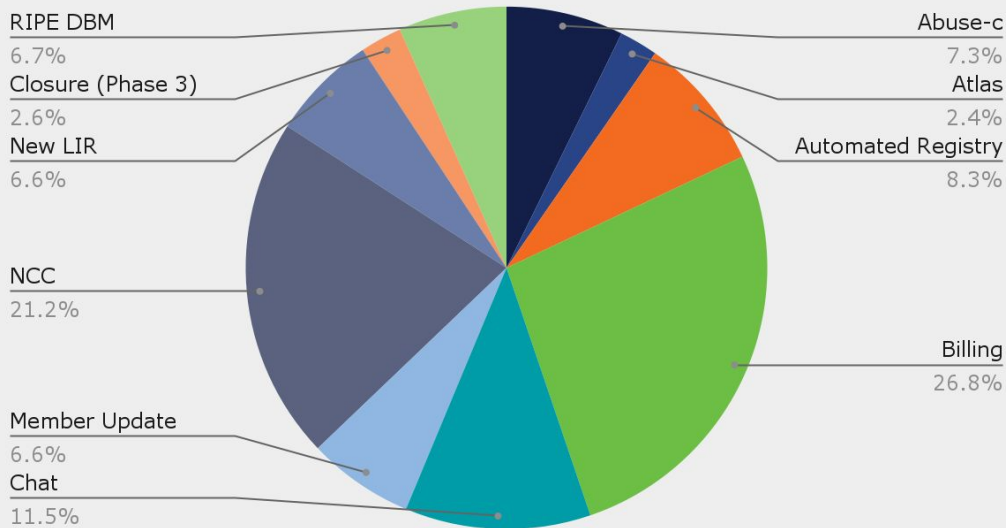
Member Services Workload



Takeaways:

- Total number of tickets for 2024 was 32,514
- 19.4% increase compared to 2023 (27,231)
- Main drivers was 2FA implementation

Member Services 2024

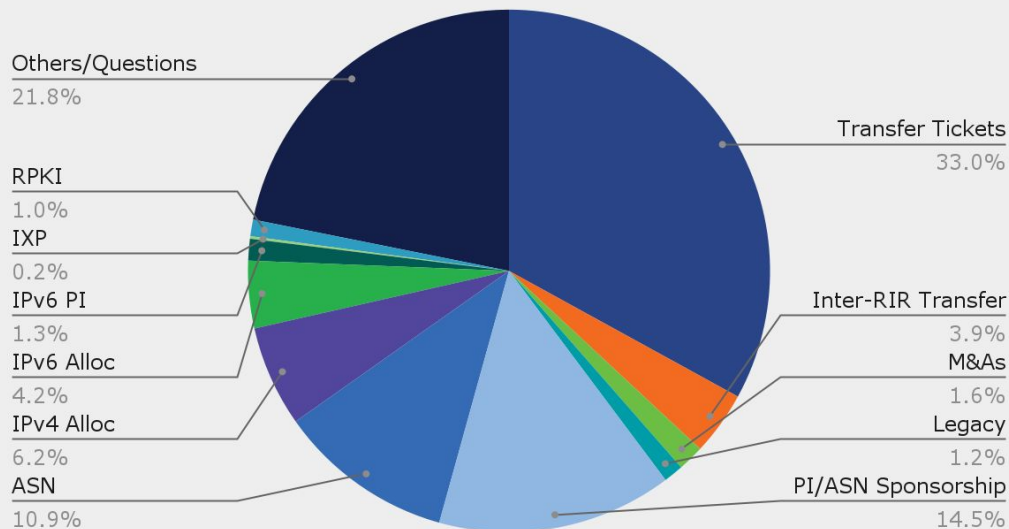


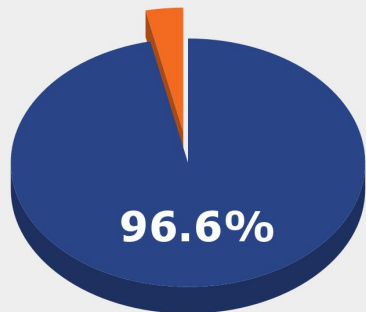


Takeaways:

- Workload increased significantly in 2024 due to new charging scheme and sponsorship changes for independent resources
- To improve efficiency we are continuously evaluating enhanced automation, currently the sponsorship change request process is being worked on

Registration Services 2024





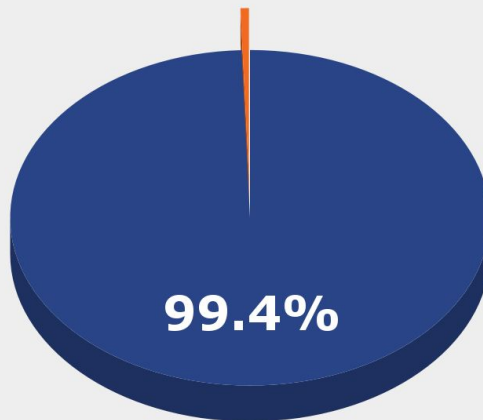
3.4% = 687 members not matched
196 are organisations

● Matched ● Not Matched

Matched with business registry

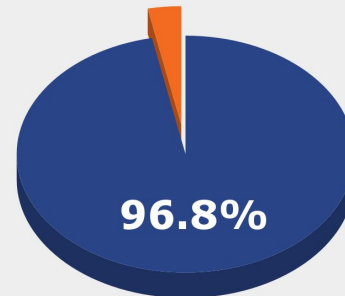
Third party provider with worldwide coverage.

Automatic links to national business registers



● Matched ● Not Matched

Organisational members



● Unique Email Addresses ● Bounces

Email addresses bounces

We have actively verified Abuse-c emails over the last few years.

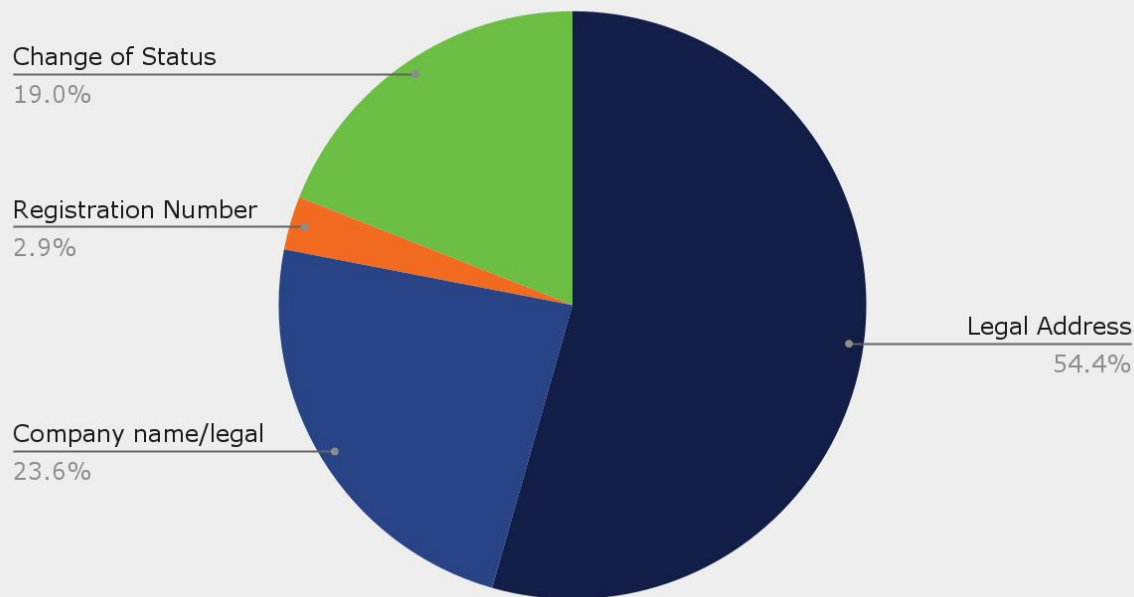
We also need to verify:

- Billing
- Organisation
- Registry Contacts



Monitoring of Registry Accuracy Alerts

Implemented

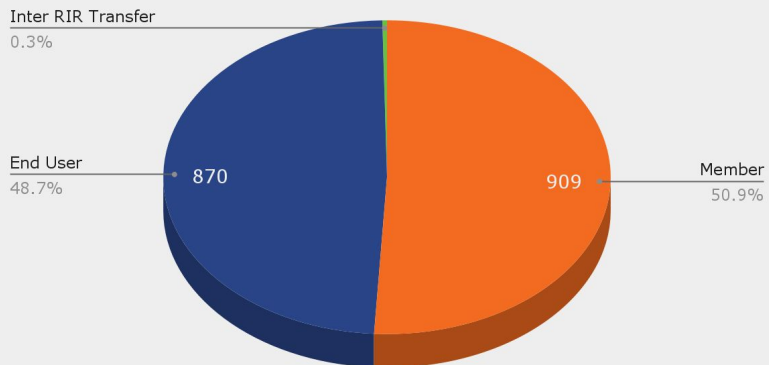


- 2,389 Alerts
- **1,430 Updates made**
- 956 Non-essential updates

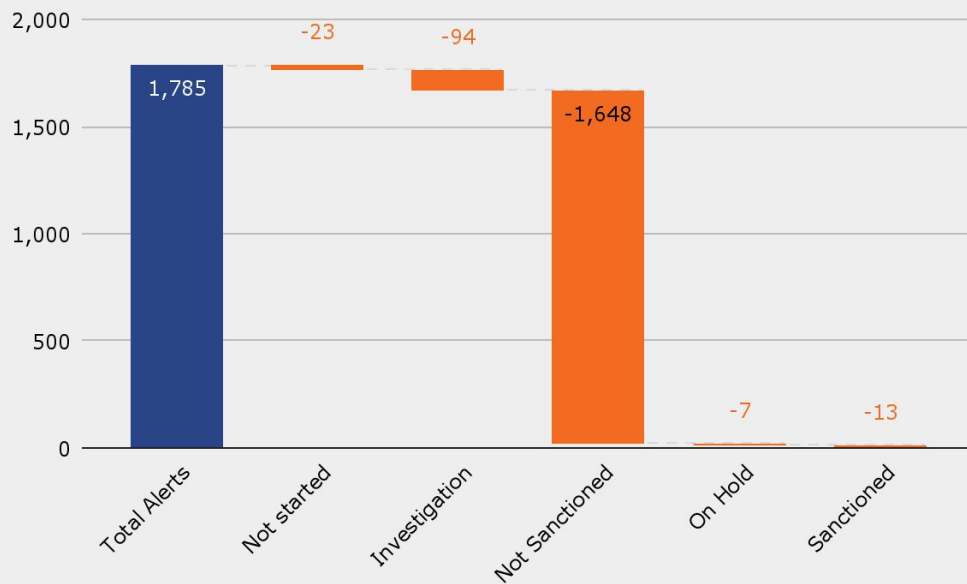
Status sanctions investigations: on 1 Jan 2025



Type of Resource Holders



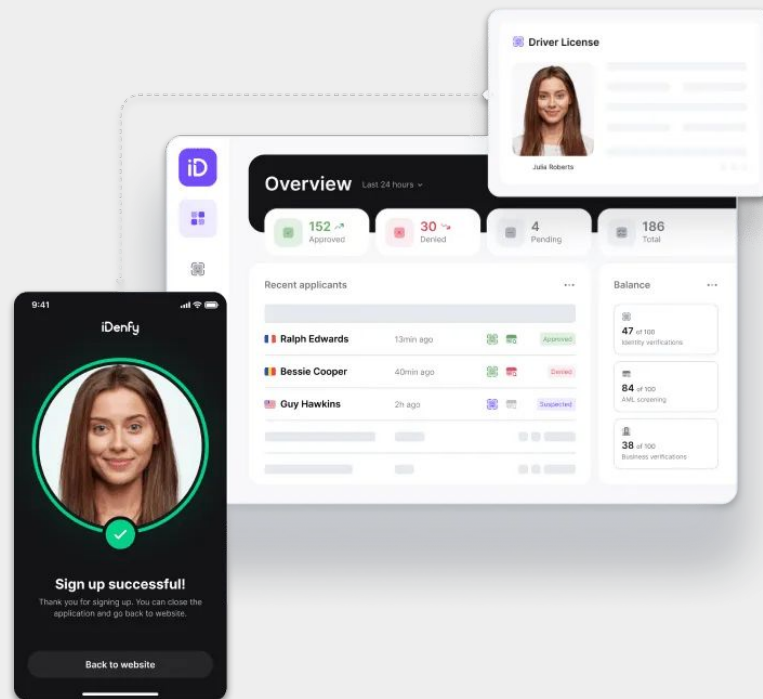
Status of Cases





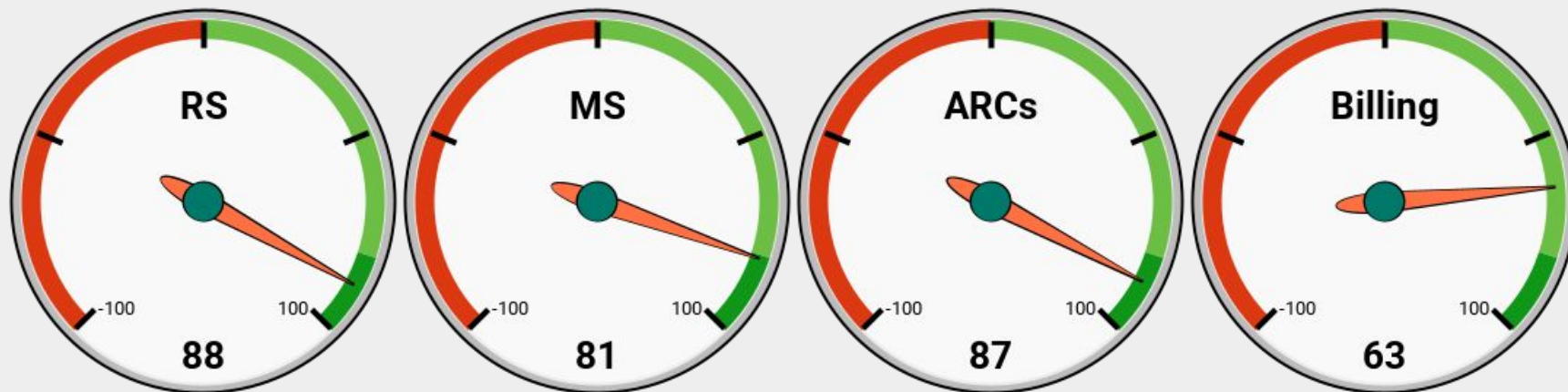
ID verification for an accurate registry

- **Identity document + Face recognition**
 - Used to verify who you are
- **Automating Due Diligence Procedures**
 - Members can now use a 'liveness check'
 - Conducted by our third-party provider, iDenfy
- **Notarisation Still Available**
 - Members may still opt to submit notarised documents





Net Promoter Score (NPS)



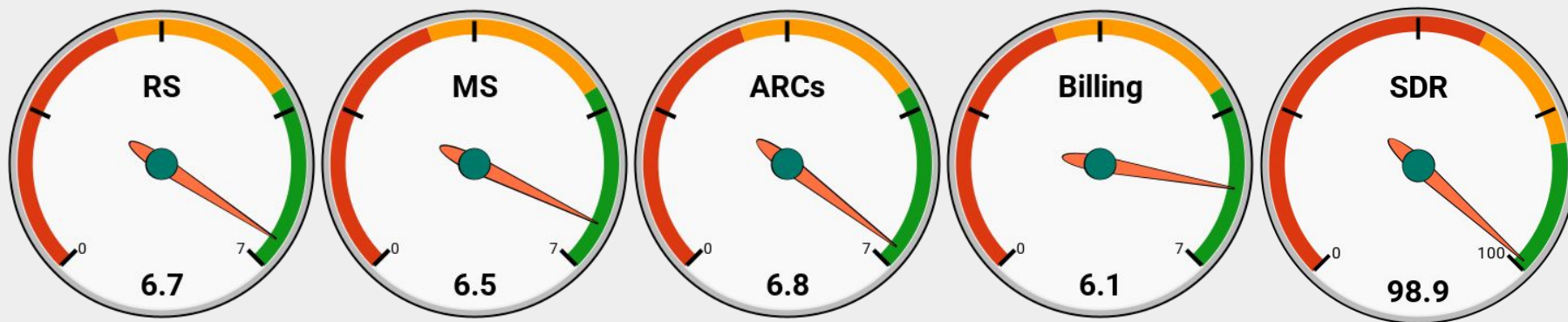
RS: Registration Services

MS: Member Services

ARC: Assisted Registry Checks



Customer Effort Score (CES)



RS: Registration Services
MS: Member Services
ARC: Assisted Registry Checks
SDR: Same Day Response



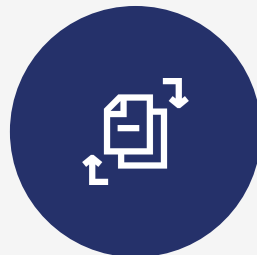
A selection of most impactful legislation

Currently applicable to RIPE NCC services	Incoming and being reviewed if applicable
General Data Protection Regulation (GDPR)	Second Network and Information Security Directive (NIS2)
Protection of privacy in electronic communications (ePrivacy)	Critical Entities Resilience Directive (CER)
Digital Services Act (DSA)	E-evidence Package
Radio Equipment Directive	Data Act
Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)	Updates to RoHS2 and WEEE
Waste from Electrical and Electronic Equipment (WEEE)	Updates to the Regulation on the European Digital Identity Framework (eIDAS)
EU Sanctions Regulations	Cyber Resilience Act (CRA)



Commitment to security and integrity

- Acquired ISAE 3000/SOC2 Type I attestation for RPKI.
- Aligning our processes and ways of working with the ISO 27001:2022 security standard



Adherence to regulations

- Authoritative DNS services fall under NIS2
- RIPE NCC services are in the supply chain of our members who fall under NIS2, DORA
- Compliance with ISO 27001 helps ensure readiness for NIS2



Robust risk management

- Risk management in place to understand, prioritise and act on key risks
- Risk appetite tailored to our members' needs and operational sensitivity

SOC 2 Control Framework Controls - for RPKI



Ensures system uptime, failover readiness, disaster recovery, redundancy, backup reliability, and continuous performance monitoring.

Availability
(Implemented 9 Controls)

Protects sensitive data through access controls, encryption, secure storage, data classification, policies and procedures.

Confidentiality
(Implemented 2 Controls)

**SOC 2
Control
Framework**

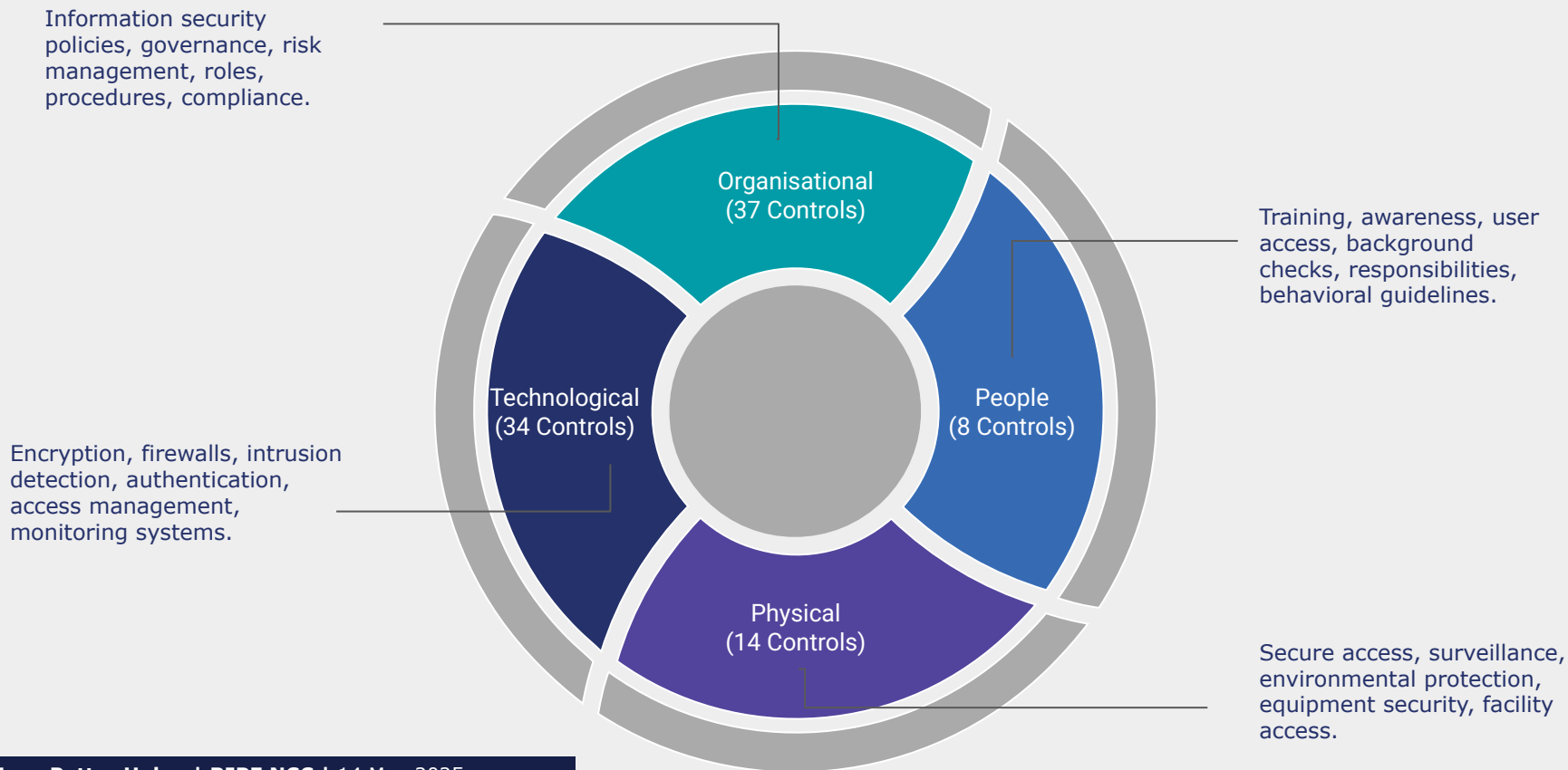
Processing Integrity
(Implemented 10 Controls)

Maintains system accuracy, completeness, and reliability through data validation, process monitoring, error detection, and audit trails.

Security
(Implemented 55 Controls)

Safeguards systems from threats via access controls, vulnerability management, intrusion detection, threat monitoring, and incident response.

ISO 27001 Annex A Control Themes Under Implementation





Gabor de Wit

Gabor de Wit has just joined as our new
Chief Registry Officer

Welcome, Gabor!



Questions & Comments

