Eligibility Framework -Status and topics for STEPS

STEPS Tech Committee 4 Nov 2024

CERN IT Eligibility Framework team (Joint project FHR sector and IT)



The Eligibility Framework (EF) project



• Definition:

• A structured taxonomy and a framework for defining and applying "who can access what" resources.

• Purpose:

• Ensuring appropriate and efficient allocation of resources while minimizing costs and reputational risks.

• Key objectives:

- Policy Definition: Establish clear policies for resource access and usage.
- Framework Setup: Develop and integrate a New Resource Portal to manage eligibility rules and lifecycle.
- Resource Usage Monitoring: Track resource utilization to make informed decisions on policy adjustments, manage risks, and optimize costs.

• Players:

- Main actors: FHR and IT
- Stakeholders: the whole CERN



EF - The Origin



• The Eligibility Framework project started beginning of 2023,

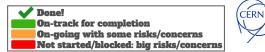
- Green-light on policy and high level implementation plan at the CERN Extended Directorate meeting on the 30th of May 2023.
- Acknowledged in ED meeting minutes: "some milestones and deliverables may need further discussion with technical experts on feasibility and implementation details".

The project is progressing

- With delays in some of the areas wrt timeline defined ~2 years ago:
 - reasons discussed and understood
- Updated deliverables organization and timeline
 - Discussed and agreed in FHR-IT Tech and Steering meetings
- No showstoppers foreseen for the overall project
 - But interesting challenges that will require iterations to be appropriately tackled.



EF - Macro Areas - Overview



M1 [FHR+IT] - Computing Account Automatic Activation (C3A)

• Fully integrated.

M2 [IT] - RUM (Resource Usage Monitoring)

• First version done. Results in 2024 March FHR-IT Tech. OK to re-run by end of 2024.

M3 [IT] New Resource Portal

- Work ongoing. First big service full integration: end of Q4 2024. Next service (Google) by end of Q1 2025.
- Hackathon (beginning of 2025) under discussion to sprint the integration of services and validate the NRP backend API

M4 [FHR] Admin e-guide and processes

 Draft available (next slide). No major issues. Will need a bit of work to set up the processes when NRP will be available. <u>To be discussed in STEPS (today)</u>

M5 [CERN wide] Policy definition

• The "Eligibility Matrix": first implementation done, next iterations in STEPS (today)



Eligibility Matrix



admin eGuide Remote & contractors

admin eGuide retirees & others

| Eligible | | | Limited = limited access | controlle | d by egroups | or for a limi | to time perio | bd | | | | | | | | | |
|--|------------|--|--|-----------------------|-------------------|----------------------|--|------------------------|---|---------------------------------------|--|----------|---|-----------|--|---|----------|
| Not Eligible | | | Linited - Innited deces | , concronic | a by cBroaps | , or for a fill | ad chile per h | 1 | | | | | | | | | |
| Eligible with Guarantor approval | - | L | | | - | | | | | | | | | | | | - |
| Categor | v | MPFs | & MPAs | R | emote Partic | inants | | 0 | ontactors & Exte | rnals | | Retirees | | | Other | | - |
| Conger | | MPEs + Trainees: (STAF, FELL, GRADs + Temp. Labour + EXTN RETC, MPAt: ADMI, APPR, DOCT, SUMM, TECH, TRNE) | Collaborators + Exchange Scientists (MPAc: COAS, EXAS, PJAS, USER + MPAx: CASS, GPRO, SASS, VIS ;) | EXTN PART, RETP | EXTN DIST | Future MPs | Employees of CERN Contractors (computer users) | Employees of CERN | EXTN Group A (GUID, ILOF, STAG, PROJ, EUPR, SCIE, COMT) | EXTN Group B (CONF, FORM, GACR) | EXTN Group C (ACCO, HOST, KIND, VISI, CLUB) | Retiree | Ex-Member of Personnel (Grace Period 2 months) | Alumni | Ex-Member of Personnel (non- contractors) | Ex-Member of Personnel (Externals + contractors) | Visitors |
| Responsible body (who approves rules of eligibility) | | HR / IPT | HR / EP | EP | GTPA | HR/ Users Office | IPT Dept. | IPT Dept. | GTPA | GTPA, HR-LD (FORM), PF (GACR) | GTPA, HR-SA (KIND, CLUB), IPT (VISI) | PF | HR | IR | HR | GTPA + IPT | IR |
| Guarantor (who approves requests) + Licence Manager | | Supervisor | Supervisor / Team Leader | Team Leader | CERN Guarantor | Future Supervisor | Technical Officer * | Technical Officer * | CERN Guarantor / Supervisor | CERN Guarantor | N/A | N/A | N/A | IR | N/A | N/A | N/A |
| Population size JAN 2023 | | 3233 | 12913 | 7168 | 577 | 141 | ca. 300 | ca. 4270 | 697 | 61 | 606 | ca. 3800 | | ca. 8000 | | | |
| Basic resources | | | | | | | | | | | | | | | | | |
| Register device(s) on CERN network / connect to CERN wifi | | | | Visitors | Visitors | Visitors | | | | | Visitors | | Visitors | Visitors | Visitors | Visitors | Visitors |
| Bulletin | | | | | | | | | | | | | | | | | |
| Mattermost, Discourse | | | | | | | | | | | | | | | | | |
| Security Services: firewall (PAN), mail quarantine (xorlabs) | | | | | | | | | | | | | | | | | |
| Tax certificates, attestations, salary slips | | | | If was Mi | If was MP | If was MP | If was MP | If was MP | If was MP | If was MP | If was MP | Limited | If was MP | If was MP | If was MP | N/A | N/A |
| Be part of eGroups | | | | | | | | | | | | | | | | | |
| Indico content (behind SSO) | | | | | | | | | | | | Limited | | | | | |
| Webcasts (behind SSO) | | | | | | | | | | | | Limited | | | | | |
| Login to/Read Twiki, Drupal, Wordpress, CodiMD | | | | | | | | | | | | | | | | | |
| CERN websites (Alumni, ILOs, Pension Fund, CHIS) | | | | | | | | | | | | Limited | | | | | |
| CDS content (behind SSO) | | | | | | | | | | | | Limited | | ? | | | |
| Mandatory online safety / security training courses | | | | | | | | | | | | | | | | | |
| Official notifications + News | | | | | | | | | | | | | | | | | |
| Phonebook | | | | | | | | | | | | | | | | | |
| Personal home directory quota (CERNbox, Office A1 M365) | | | | | | | | | | Limited | Limited | | | | | | |
| Central Compute Services (AFS, EOS, LXPLUS, LXBATCH) | | | | | | | | | | | | | | | | | |
| CERNPhone | | | | | | | | | | | | | | | | | |
| Create egroups | | | | 2 | 2 | ? | 2 | | 2 | ? | ? | | | | | | |
| EDH | | | | | | Limited | Limited | | | | | Limited | | | | | |
| ESET Security software (CERN managed devices) | | | | | | | | | | | | | | | | | |
| ESET Security software (BOYD) | | | | | | | | | | | | | | | | | |
| Other Learning courses | | | | Limited | Limited | Limited | Limited | Limited | Limited | | | | | Limited | | | |
| | | - | | | | | | | | | | | | | | | |
| Controlled resources | In Portal? | | | | | | | | | | | | | | | | |
| Computing account / way to authenticate | N | | | | | | 1 | | | | | | | | | | |
| Service Now (be a supporter) | N | | | | | | 1 | | | | | | | | | | |
| Create Twiki, Drupal, Wordpress, CodiMD | Y | | | | | | | | | | | | | | | | |
| Grid certificates | Y | | | | | | | | | | | | | | | | |
| Java JDK JRE | Y | | | | | | | | | | | | | | | | |
| Google Workspace | | | | | | | | | | | | | | | | | |
| Overleaf, Gitlab, Atlassian, Zoom | Y | | | | | | | | | | | | | | | | |
| Digital Library (ebooks + journals + ILS Library Catalogue) | Y | | | | | | | | | | | | | | | | |
| Microsoft (Windows + Office A5 M365) | Y | | | | | | | | | | | | | | | | |
| CAD/CAM & Engineering software | Y | | | | | | | | | | | | | | | | |
| Create redirections (mail) | Y | | | | | | | | | | | | | | | | |
| CERN redirection alias as connection string | N | | | | | | | | | | | | | | | | |
| Mailbox + CERN email | Y | | | | | | External | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |



Eligibility Matrix - admin eGuide - draft for STEPS approval

Eligibility - Members of the personnel, Temporary personnel and Externals RETC - Draft version

| | MPEs / MPAs / TE | MCs / EXTN RETO |
|---|--|--|
| CATEGORY | STAFF, FELL, GRAD ADMI, APPR, DOCT, SUMM, TECH, TRNE TEMC EXTN RETC | COAS, EXAS, PJAS USER CASS, GPRO, SASS VISC |
| Responsible body (who approves rules of eligibility) | | |
| Supervisor / Guarantor (who approves requests) + Licence Manager | | |
| BASIC RESOURCES | | |
| Register device(s) on CERN network / connect to CERN wifi | | |
| Bulletin | | |
| Mattermost, Discourse | The second s | |
| Security Services: firewall (PAN), mail quarantine (xorlabs) | | |
| Tax certificates, attestations, salary slips | | |
| Be part of eGroups | | |
| Indico content (behind SSO) | | |
| Webcasts (behind SSO) | | |
| Login to/Read Twiki, Drupal, Wordpress, CodiMD | | |
| CERN websites (Alumni, ILOs, Pension Fund, CHIS) | | |
| CDS content (behind SSO) | | |
| Mandatory online safety / security training courses | | |
| Official notifications + News | | |
| Phonebook | | |
| Personal home directory quota (CERNbox, Office A1 M365) | | |
| Central Compute Services (AFS, EOS, LXPLUS, LXBATCH) | | |
| CERNPhone | | |
| Create egroups | | |
| EDH | | |
| ESET Security software (CERN managed devices) | | |
| ESET Security software (BOYD) | | |
| Other Learning courses | | |

| CONTROLLED RESOURCES | In Portal? | |
|---|------------|--|
| Computing account / way to authenticate | N | |
| Service Now (be a supporter) | N | |
| Create Twiki, Drupal, Wordpress, CodiMD | Y | |
| Grid certificates | Y | |
| Java JDK JRE | Y | |
| Google Workspace | | |
| Overleaf, Gitlab, Atlassian, Zoom | Y | |
| Digital Library (ebooks + journals + ILS Library Catalogue) | Y | |
| Microsoft (Windows + Office A5 M365) | Y | |
| CAD/CAM & Engineering software | Y | |
| Create redirections (mail) | Y | |
| CERN redirection alias as connection string | N | |
| Mailbox + CERN email | Y | |
| Access to CERN resources portal? | | |

FDH

CONTROLLED RESOURCES

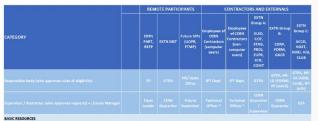
Create redirections (mail)

Mailbox + CERN email

Grid certificates Java JDK JRE Google Workspace



Eligibility - Remote participants, Contractors and Externals - Draft version







Eligibility - Retirees and others - Draft version

| | | RETIREES | | | OTHER | | |
|---|------------|----------|---|--------------|---|--|----------|
| CATEGORY | | Retiree | Ex-member of the personnel (grace period 2 months) | Alumni | Ex-member of the personnel (non- contractors) | Ex-member of the personnel (Externals + contractors) | Visitors |
| Responsible body (who approves rules of eligibility) | | PF | HR | IR | HR | GTPA + IPT | IR |
| | | | | | | | |
| BASIC RESOURCES | | | | | | | |
| Register device(s) on CERN network / connect to CERN wifi | | | | | Visitors | | |
| Bulletin | | | | | | | |
| Mattermost, Discourse | | | | | | | |
| Security Services: firewall (PAN), mail guarantine (xorlabs) | | | | | | | |
| Fax certificates, attestations, salary slips | | Limited | If was me | mber of the | nerconnel | N/ | A |
| Be part of eGroups | | Chinese | | ander of the | personner | | |
| Indico content (behind SSO) | | Limited | | | and the second second | and the second second | |
| Webcasts (behind SSO) | | Limited | | | | | |
| Login to/Read Twiki, Drupal, Wordpress, CodiMD | **** | | | | | | |
| CERN websites (Alumni, ILOs, Pension Fund, CHIS) | | Limited | | | | | |
| CDS content (behind SSO) | | Limited | 100100100000000 | 7 | | | |
| Mandatory online safety / security training courses | | | | | | | |
| Official notifications + News | | | | | | | |
| Phonebook | | | | | | | |
| Personal home directory quota (CERNbox, Office A1 M365) | | | | | | | |
| Central Compute Services (AFS, EOS, LXPLUS, LXBATCH) | | | | | | | |
| CERNPhone | | | | | | | |
| Create egroups | | | | | | | |
| EDH | | Limited | | | | | |
| ESET Security software (CERN managed devices) | | | | | | | |
| ESET Security software (BOYD) | | | | | | | |
| Other Learning courses | | | | Limited | | | |
| CONTROLLED RESOURCES | In Portal? | | | | | | |
| Computing account / way to authenticate | N | | | | | | _ |
| Service Now (be a supporter) | N | | | | | | |
| Create Twiki, Drupal, Wordpress, CodiMD | Ŷ | | | | | | |
| Grid certificates | γ | | | | | | |
| lava JDK JRE | Y | | | | | | |
| Google Workspace | | | | | | | |
| Dverleaf, Gitlab, Atlassian, Zoom | γ | | | | | | |
| Digital Library (ebooks + journals + ILS Library Catalogue) | γ | | | | | | |
| Microsoft (Windows + Office A5 M365) | γ | | | | | | |
| CAD/CAM & Engineering software | γ | | | | | | |
| Create redirections (mail) | γ | | | | | | |
| CERN redirection alias as connection string | N | | 2011 (B. 1997) | | | | |
| Mailbox + CERN email | γ | | | | | | |
| Access to CERN resources portal? | | | | | | | |
| Eligible | | | | | | | |
| Eligible with supervisor / guarantor approval Not Eligible | | | | | | | |

Specific topics for STEPS

CERN

1. Draft admin eguide approval

- a. The matrix was approved in May2023 by the CERN Extended Directorate, the amin eGuide draft pages are just the matrix exposed in webpages.
- 2. Contact in case of requests for changes to the Elibigility Framework Matrix:
 - a. we suggest is STEPS, i.e. we need to have some "contact us" in case of questions.
- 3. Eligibility Framework Matrix updates:
 - a. we do not have big changes as of now to be suggested, one minor (next slide)

4. Guest accounts:

- a. they are not in the EFM
- b. we believe that unverified account should not be allowed to have "expensive" resources, expensive means anything that is more than some view on e.g. social, indico, etc.

5. Emeriti:

a. Discussions are ongoing, from the Eligibility project point of view is OK if they have category of personnel (as it is proposed as of now), no issues foreseen.

6. Chargeback mechanism (once NRP is ready):

- a. we need to have a reasonable balance between creating one EDH doc for user for license (too many, more the cost than the gain!), and an "all-in", which would not allow us to be detailed enough and optimize costs while minimizing risks.
- b. We are thinking to setup a small TF to detail the process to be setup.



Email - details



• In the present EFMatrix we have:

- a. "CERN redirections (mail)": this relates to the capacity to get a CERN email address without a mailbox (with a redirection to an external email address)
- b. "CERN redirection alias as connection string": this is the possibility to connect to cloud services while being recognised as a CERN user; this means getting an @cern.ch login, but no email address behind.
- c. "Mailbox + CERN email": the "classic" one the capacity to get a CERN email address with a mailbox
- It was noted by the experts that option "B" does not make much sense: Cloud services do expect that the email address you enter as login can be used to validate the account, and/or

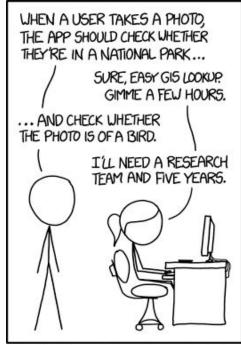
simply send service-related information.

• We propose to merge A and B into a single "CERN email address without mailbox" line with the same colors as B except for the cells under "Remote Participants" which should be

orange.

| Eligible | | Limited = limited access | controllec | by egroups | , or for a limi | ted time perio | d | | | | | | | | | |
|--|--|---|-----------------------|-------------------|-------------------------------|--|--|---|---------------------------------------|--|----------|---|--------|--|---|----------|
| Not Eligible | | | | | | | | | | | | | | | | |
| Eligible with Guarantor approval | | | | | | | | | | | | | | | | |
| Category | MPEs | & MPAs | Re | mote Partici | pants | | Co | ontactors & Exte | rnals | | Retirees | | | Other | | |
| | MPEs + Trainees: (STAF, FELL, GRADs + Temp. Labour + EXTN RETC, MPAt: ADMI, APPR, DOCT, SUMM, TECH, TRNE) | Collaborators + Exchange Scientists (MPAC: COAS, EXAS, PJAS, USER + MPAX: CASS, GPRO, SASS, VISC) | EXTN PART, RETP | EXTN DIST | Future MPs (UOPR, FTMP) | Employees of CERN Contractors (computer users) | Employees of CERN Contractors (non- computer users) | EXTN Group A (GUID, ILOF, STAG, PROJ, EUPR, SCIE, COMT) | EXTN Group B (CONF, FORM, GACR) | (ACCO, HOST, | Retiree | Ex-Member of Personnel (Grace Period 2 months) | Alumni | Ex-Member of Personnel (non- contractors) | Ex-Member of Personnel (Externals + contractors) | Visitors |
| Responsible body (who approves rules of eligibility) | HR / IPT | HR / EP | EP | GTPA | HR/ Users Office | IPT Dept. | IPT Dept. | GTPA | | GTPA, HR-SA (KIND, CLUB), IPT (VISI) | PF | HR | IR | HR | GTPA + IPT | IR |
| Guarantor (who approves requests) + Licence Manager | Supervisor | Supervisor / Team Leader | Team Leader | CERN Guarantor | Future Supervisor | Technical Officer * | Technical Officer * | CERN Guarantor / Supervisor | CERN Guarantor | N/A | N/A | N/A | IR | N/A | N/A | N/A |

Questions?



IN CS, IT CAN BE HARD TO EXPLAIN THE DIFFERENCE BETWEEN THE EASY AND THE VIRTUALLY IMPOSSIBLE.







Ale Di Girolamo - 4 Nov 2024

Eligibility - Milestones and Deliverables

| | J |
|--------|---|
| (CERN) | Ŋ |
| | Y |
| _ | 1 |

| | | | | _ | ICRECAU | _ | | | _ | | |
|-----|---|-------------|--------------------------|--------------------------|------------------------|---------------------------------------|--------------------------|------------------------|----------------------|--|----------------------------------|
| | Name of Milestones and Deliverables | Status | To Be Reviewed By | Start Date dd/mm/yyyy | End Date dd/mm/yyyy | Duration (months) | Start Date dd/mm/yyyy | End Date dd/mm/yyyy | Duration (months) | Comments | Status |
| | Eligibility Framework | In Progress | ARB, FHR+IT | 01.01.23 | 31.12.25 | 36 | 01.01.23 | 31.12.26 | 48 | severe underestimation of the complexity of the New Resource Portal | Not Started |
| M1 | Computing Automatic Account Activation (C3A) | In Progress | | | | | | | | | In Progress Complete |
| 1.1 | prototype the C3A website and notifications | Complete | FHR+IT Tech and Steering | 01.01.24 | 01.06.24 | 5 | 01.01.24 | 01.09.24 | 8 | Several bugs discovered | On Hold |
| 1.2 | C3A in full production | In Progress | FHR+IT Tech and Steering | 01.09.24 | 01.10.24 | 1 | 01.09.24 | 01.11.24 | 2 | Contractors and EXTN not yet fully informed | On field |
| 1.3 | | mirogram | The fille of a reasoning | UTION ALL | Ultroix | + + + + + + + + + + + + + + + + + + + | Unic. 2 | | + | | |
| M2 | Resource Usage Monitoring | In Progress | | | | | | | | | |
| 2.1 | prototype the RUM | Complete | FHR+IT Tech and Steering | 01.12.23 | 01.04.24 | 4 | | | | | |
| 2.2 | yearly production of RUM data | In Progress | FHR+IT Tech and Steering | 01.11.24 | 01.12.24 | 1 | | | | it requires logs from each relevant service | |
| M3 | New Resource Portal (NRP) | In Progress | | | | | | | | | |
| 3.1 | OpenStack integration | In Progress | IT Elig Team + ARB | 01.01.24 | 01.04.24 | 3 | 01.01.24 | 01.11.24 | 10 | | |
| 3.2 | Google integration | On Hold | IT Elig Team + ARB | 01.03.24 | 01.05.24 | 2 | 01.11.24 | 01.02.25 | 3 | dependent on previous steps | |
| 3.3 | OldResourcePortal decommissioning | On Hold | IT Elig Team + ARB | 01.02.25 | 01.08.25 | 6 | | | | dependent on previous steps - will require Oracle | e and AFS experts |
| 3.4 | Account migration (FIM to MIM) | On Hold | IT Elig Team + ARB + FHR | 01.08.25 | 01.02.26 | 6 | | | | dependent on previous steps | |
| 3.5 | ID for life | On Hold | IT Elig Team + ARB + FHR | 01.02.26 | 01.05.26 | 3 | | | | dependent on previous steps - can be fast once t | the migration to MIM is com |
| 3.6 | API evolution for Professional tenants | On Hold | IT Elig Team + ARB | 01.05.26 | 01.11.26 | 6 | | | | it could be done in parallel with the integration of | of services, but relies on the s |
| M4 | Admin eguide | In Progress | | | | | | | | | |
| 4.1 | draft admin eguide improvements with Eligibility Matrix inf | | FHR-IT | 01.01.24 | 01,10.24 | 9 | | | | | |
| 4.2 | expose in production the new admin eguide pages | In Progress | FHR-IT | 01.10.24 | 01.04.25 | 6 | | | | it will take time to be able to have comments fro | om the community |
| | | | | | | | | | | | |
| M5 | Eligibility Policy definition and update | Complete | | | | | | | | | |
| 5.1 | Eligibility Matrix proposal | Complete | STEPS | 01.01.23 | 01.06.23 | 5 | | | | agreed at ED May 2023 | |
| 5.2 | Improvements and changes to the policy | On Hold | STEPS | | | | | | | nothing critical to discuss with STEPS as of now. E | imeriti are being discussed i |



Eligibility - Gantt chart



| | 2023-01 2023-02 | 2023-03 | 2023-04 | 2023-06 2023-07 | 2023-08 | 2023-09 2023-10 | 2023-11 | 2024-01 | 2024-02 2024-03 | 2024-04 | 2024-05 2024-06 | 2024-07 | 2024-09 | 2024-10 | 2024-12 | 2025-01 | 2025-02 2025-03 | 2025-04 | 2025-06 | 2025-07 | 2025-09 | 2025-10 | 2025-11 | 2026-01 | 2026-02 | 2026-04 | 2026-05 | 2026-07 | 2026-08 | 2026-10 | 26-11 |
|---|--------------------|------------------|-------------|--------------------|--------------|--------------------|-------------|----------|--------------------|---------|--------------------|---------|--------------|---------|---------|---------|--------------------|---------|--------------|-----------------------|---------|---------|------------|-----------------|---------|--------------|------------|----------|---------|-------------------------------|-------|
| | 20 | 20 | 20 20 | 20 | 5 | 20 | 20 | 50 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 20 | 20 | 20 20 | 20 | 20 20 | 20 | 20 | 20 | 20 | 20 20 | 20 | 20 | 20 | 20 | 3 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eligibility Framework | ю - 1 | 10 - 10) - 10 | Mi - 0 | e a | 54 53 | - 365 | с ж. | 345 - OK | | x a | 783 | e s | - se | k st | a 3 | | 6 | 4) (4) | a) (| e 2) | 30 34 | (A) | 4). | ж. э. | | (6) | 9 39 | 185 A | 5 - XS | $w = w^{\dagger}$ | |
| | 50 - L | 2. X. | 30 V | с ас | a a | (143) | c | × × | - a: | 8 . D | 383 | s. 8 | 82 9 | x x | 18 12 | | 15 | 65 - 31 | | 8 - 10 | 18 19 | 53 | 52 | as | ж | 3 | a | 100 4 | 0 | 35 - 26 | |
| M1 Computing Automatic Account Activation (C3A) | \$(| S - 35 | ÷ | 6 - 10 | w - % | 12 | 8 | 2 2 | _ | | | 2 - 2- | 2 | 8 8 | N 8 | - 27 | 15 | 10 T | 8 | 9 - W | St 16 | 8 | 10 | 7 - 7 | 3 | 2 | 8 - 16 - I | - 2C - 3 | () | v = v | 2 |
| 1.1 prototype the C3A website and notifications | <i>i</i> 2 – 1 | . n | 98 - 8 | с р. | 9. S. | 1 | 5 - XC | | | 1 | | | | | 3x = 0 | 340 | 0 | 10 N | τ | с 9. | 99 - S | 0 | <u>8</u> 1 | $\bar{c} = \pi$ | 30 | 3 | x s | (16) | | $\kappa = \kappa$ | 9 |
| 1.2 C3A in full production | 10 I | 2. 20 | - 20 - 2 | . a | a a | | c . e | | | | | | | | | | es. | s a | 22 - 3 | c 2 | | | 2 | s 2 | | 3 | | | | a a | |
| | | 8 - W | 8 3 | a a | $w = \infty$ | | 3 _22 | S _ S | X | 2 _ C. | 1920 | aa | 6 6 | a _ a | 32 70 | L 1971 | 25 | 18 - 18 | 82 | V 84 | a % | 12 | - 23 | aa | | S | 1 | - M - 14 | a - 20 | <i>n2</i> | а_ |
| M2 Resource Usage Monitoring | 8.1 | 0 00 | 90 - B | e 9 | a - 5 | 100 | 5 x | 9 - 30 | | s - 54 | 045 | 8 - 8 | 38 - 3 | a 32 | x 0 | | 0 | 12 X | α. | й — 9. | 9 B | 81 | R 2 | v x | 32 | a. | x o | - 18 - X | 1. X. | x x | 3 |
| 2.1 prototype the RUM | 15 I. | a. a.e | 30 8 | C 18 | 38 13 | 2.4.2 | . A. | | | | 1242 | ez – 62 | | e - 16 | a 9 | 336.2 | 125 | 63 - 30 | 00 | c st | 19 | 8 | 12 | 8. B | 14 | 20 | 2 22 | 82 | 20 | 3C - 3C | |
| 2.2 yearly production of RUM data | 10 1 | 8 75 | 18 - 2 | 1 II. | 12 N | 243 | 1 2 | 8 8 | 12 | i a | 1520 | 2 - 21 | 27 - S | a - 5 | 4 | 1.187 | 35 | w = w | 18 - 2 | 2 35 | a – 6 | 19 | 21 | 2 D | 8 | 8 | 1 31 | -31 - 1 | 0 10 | 9 B | a. |
| | 63 - X | e - 20 | x 3 | e 96 | a a | (43) | a 18 | 92 - 38 | a | a 94 | 1945 | с в | a: a | a 92 | 24. (4 | (97) | 63 | n = n | 96 - C | 2 - 3 | 94 - 39 | 13 | 13 | e - a | | a | 4 59 | | | x x | - 4 |
| M3 New Resource Portal (NRP) | | | | с | | | | | | | | | | | | - 197 | | e e | | e | 13 - 14 | | e. | | | | | | | | |
| 3.1 OpenStack integration | D = 1 | 8 - W | 17 - 2 | 5 - 51 | w _ 3 | 523 | 8 8 | 2 2 | - 12 - 1 | 1 - 1 | 622 | 2 2 | a 1 | 2 A | a - 5 | 144 | 22 | v = v | <i>a</i> = 1 | 2. 25 | a - 6 | 17 | 8 | <u>n</u> 2 | 2 | аў. 1 | 9 - 51 | - 20 - 3 | n - 10 | и в | 4 |
| 3.2 Google integration | e. 1 | s . e | φ | e 19. | a | 100 | 6 - 16 | · | - a - a | a .a | | с и | ж. з | | | | 0 | n n | | e - 4 | 3 9 | e. | | e - 8 | | 2 | 6 35 | | 6 | e e | |
| 3.3 OldResourcePortal decommissioning | 6 1 | e - 10 | | | 9 - 24 | | | | | | | -s - ts | | | | | 10 | 1 | 15. | e | | 0 | 5 | | | | | | | | |
| 3.4 Account migration (FIM to MIM) | <i>10</i> 1 | 8 - 78 | 8 3 | 1 11 | W 81 | 120 | 1 2 | 67 - 32 | 72 3 | 8 G. | 120 | 2 B | <u>u</u> ; s | 8 6 | 55 TA | 1. 1917 | 25 | 12 N | 18 | 2 - 31 <mark>-</mark> | 34 - 32 | 14 | 2 | 1.1 | 3-4- | 17 | 14 N. | -31 - 1 | 6 D | 9 8 | 7 |
| 3.5 ID for life | a 1 | 8 - 10 | | с <u>а</u> | 0. D | 1325 | | 8 - 8 | a 1 | a 19 | 0.00 | e - 6 | 8. 9 | а а | 8 8 | (30 | 0 | n n | a | e 3 | 9 9 | 13 | | e - 1 | 4 | | | | | с. ж | a |
| 3.6 API evolution for Professional tenants | 15 1 | s 12 | .e 2 | e e | 9 - 21 | 100 | | | | | | | | | a | | | 15 22 | a | r 2 | a a | 12 | | n 2 | | | | | | | |
| | 8 | 9 W. | ÷. | 1 11 | 10 N | 120 | 2 | 10 a | | é a | 10 | 2 | 30 S | 2 G | 92 - 75 | 1977 | 8 | 10 10 | 12 | V - W | a = a | 8 | 8 | 2 - 2 | 2 | 4 | v - 3 | - S | 0 - De | W 12 | 10 |
| | 0.1 | 8. 65 | 96 - S | 0 | (a | 145 | 6 - 85 | a s | | a - 14 | 2002 | e | e 9 | e v | 38 10 | (- co) | 03 | E = 0 | 10 | e 3 | 9 | 63 | 12 | x - x | 3 | | 4 D | | (| 9 - 9 | |
| M4 Admin eguide | | | .e: | | | | | | | | | | | | | | | н. 12 | | | | | , | | | | | | | | |
| 4.1 draft admin eguide improvements with Eligibility Matrix i | | 5 . K | - P - 3 | A | w - 81 | 122 | x - 12 | | | | w. | | | | 2 5 | | | | <i>8</i> - 1 | 2 2 | 01. YA | N | 25 | 2 Z | 1 | 3 | 1 A. | - 81 - 1 | 0. D | $\overline{u} = \overline{u}$ | a. |
| 4.2 expose in production the new admin eguide pages | 0 1 | 5 - 45 | | e 18 | SA 54 | 1945 | 5 8 | 9 X | a | a - 5 | | < 8 | | | | | 15 | | | e | 8 | 10 | 10 | x x | | | a | - er - 4 | | a a | |
| | | | | | | - 45 | | | | | | | | | | | | н н. | | | 4 14 | | | | 4 | | | | | | |
| | | n w. | - 10 - 1 | A - 24 | W 91 | 142 | 1. 1. 1. | ar a | - 12 - 1 | 2 3 | 629 | 22 - VI | 10 1 | n 12 | 2 0 | (13a | 12 | w - w | 16 | 1 N | 01 74 | λī. | 10 | v 2 | | 7 | v 3. | - ar - a | а — 42 | $\overline{u} = \overline{u}$ | Ω. |
| M5 Eligibility Policy definition and update | 8. I | | | с э | a - 5 | 195 | | x | - 12 - 12 | | | e - 10 | | | 3 1 | | 0 | ю. – с | | с з | a a | 10 | | 8 B | | 8 | x - 5 | | 2 - 40 | 2 X | |
| 5.1 Eligibility Matrix proposal | | | | 1 | a - 5 | | | | | | | | | | | | | | | | | | ~ | | | | | | | | |
| 5.2 Improvements and changes to the policy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Eligibility - Project Milestones Map: old \rightarrow **new**



| Theme | Deliverable | Responsible | Timing | | | | |
|------------------------------|--|---------------------------|--------------------------------|------------------|---|----------------------|--------------------------|
| Monitoring | Bi-annual report on computing resource usage for DHs | IT | Q3 2023 | | | | |
| Access Control | Eligibility framework in place in eGroups and Admin eGuide | FAP-BC | By end 2023 | # | Name of Milestones and Deliverables | Status | To Be Reviewed By |
| Access Control | Initial request process for access to software + clean up of non-eligible access | IT | By end 2023 | | Eligibility Framework | in Progress | ARB, FHR+IT |
| Access Control & Clean-Up | Day-to-day application of Eligibility Framework; Annual revision of exceptional accesses | Experiments & Departments | Ongoing from Q3 2023 | | | | |
| Access Control | Computing accounts activated automatically ** | -11- | By end 2023 | M1 | Computing Automatic Account Activation (C3A) | In Progress | |
| | | | | 1.1 | prototype the C3A website and notifications | Complete | FHR+IT Tech and Steering |
| Clean-up + Findability | Email restriction for future Externals & Contractors + establish new resources portal | п | By end Q1 2024 | 1.2 | C3A in full production | In Progress | FHR+IT Tech and Steering |
| rmaabinty | resources portai | | | 1.3 | | | |
| Clean-up | Registration & Termination tools to show eligibility criteria to | FAP-BC | By end Q1 2024 | M2 | Resource Usage Monitoring | In Progress | |
| | individuals | | | 2.1 | prototype the RUM | Complete | FHR+IT Tech and Steering |
| Access Control | "ID for life" | п | By end Q2 2024 | 2.2 | yearly production of RUM data | In Progress | FHR+IT Tech and Steering |
| Findability | Migration of resources from old portal(s) to new | IT | Rolling basis from Q2 2024 aft | | | | |
| | | | new resources portal is ready | | New Resource Portal (NRP) | In Progress | |
| | | | | 3.1 | OpenStack integration | In Progress | IT Elig Team + ARB |
| Approved at E.D. on 30 | | | | 3.2 | Google integration | On Hold | IT Elig Team + ARB |
| This bring resource sav | ings in SCE in the scope of the CERN Welcome Centre | | | 3.3 | OldResourcePortal decommissioning | On Hold | IT Elig Team + ARB |
| | | | | 3.4 | Account migration (FIM to MIM) | On Hold | IT Elig Team + ARB + FHR |
| | | | | 3.5 | ID for life | On Hold | IT Elig Team + ARB + FHR |
| | | | $\langle \rangle$ | 3.6 | API evolution for Professional tenants | On Hold | IT Elig Team + ARB |
| | | | | | | | |
| | | | | M4 | Admin eguide | In Progress | |
| | | | | 4.1 | draft admin eguide improvements with Eligibility Matrix inf | Complete | FHR-IT |
| | | | | 4.2 | expose in production the new admin eguide pages | In Progress | FHR-IT |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | M5 | Eligibility Policy definition and update | Complete | |
| | | | | M5 5.1 | Eligibility Policy definition and update | Complete Complete | STEPS |



Ale Di Girolamo - 4 Nov 2024

EXTRA Slides presented in previous meetings



Ale Di Girolamo - 4 Nov 2024

The "New Resource Portal" (NRP)

- Service managing resources lifecycle and eligibility
 - Part of the authentication & authorization services _
 - Includes the computing resources web application _
- For service managers:
 - Define eligibility criteria -
 - Manage lifecycle of computing resources _
- For users:
 - View the services I can use
 - View and manage my resources -

| g reso | Eligible with Guarantor approval | | | | | | | | | | | | | | | | | |
|--|---|------------|---|---|----------------|-------------------|-------------------------------|--|--|---|---------------------------------------|--|----------|---|-----------|--|---|---------|
| | Categor | 7 | | & MPAs | R | mote Partic | pants | | | ontactors & Exte | rnals | | Retirees | | | Other | | |
| | | | MPEs + Trainees: (STAF, FELL, GRADS + Temp. Labour + EXTN RETC, MPAE ADMI, APPR, DOCT, SUMM, TECH, TRNEJ | Collaborators + Exchange Scientists (MPAc: COAS, EXAS, PIAS, USER + MPAc: CASS, GPRO, SASS, VISC) | RETP | EXTN DIST | Future MPs (UOPR, PTMP) | Employees of CERN Contractors (computer users) | Employees of CERN Contractors (non- computer users) | EXTN Group A (GUID, ILOF, STAG, PROI, EUPR, SCIE, CDMT) | EXTN Group 8 (CONF, FORM, GACR) | EXTN Group C (ACCO, HOST, KIND, VISI, CLUB) | Retiree | Ex-Member of Personnel (Grace Period 2 months) | Alumni | Ex-Member of Personnel (non- contractors) | Ex-Member of Personnel (Externals + contractors) | Visitor |
| | Responsible body (who approves rules of eligibility) | | HR/IPT | HR / EP | EP | GTPA | HR/ Users Office | IPT Dept. | IPT Dept. | GTPA | | GTPA, HR-SA (KIND, CLUB), IPT (VISI) | PF | HR | IR | HR | GTPA + IPT | IR |
| | Guarantor (who approves requests) + Licence Manager | | Supervisor | Supervisor / Team Leader | Team Leader | CERN Guarantor | Future Supervisor | Technical Officer * | Technical Officer * | CERN Guarantor / Supervisor | CERN Guarantor | N/A | N/A | N/A | IR | N/A | N/A | N/A |
| | Population size JAN 2023 | | 3233 | 12913 | 7168 | 577 | 141 | ca. 300 | ca. 4270 | 697 | 61 | 605 | ca. 3800 | | ca. 8000 | | | |
| | Basic resources | | | | | | | | | | | | | | | | | |
| | Register device(s) on CERN network / connect to CERN wifi Bulletin | | | | Visitors | Visitors | Visitors | | | | | Visitors | | Visitors | Visitors | Visitors | Visitors | Visitor |
| | Mattermost, Discourse | | | | | | | | | | | | | | | | | |
| | Security Services: firewall (PAN), mail quarantine (soriabs) | | | | | | | | | | | | | | | | | |
| | Tax certificates, attestations, salary slips | | | | If was Mi | If was MP | If was MP | If was MP | If was MP | If was MP | If was MP | If was MP | Limited | If was MP | If was MP | If was MP | N/A | N/A |
| es e | Be part of eGroups | | | | | | | | | | | | | | | | | |
| | Indico content (behind \$50) | | | | | | | | | | | | Limited | | | | | |
| | Webcasts (behind SSO) | | | | | | | | | | | | Limited | | | | | |
| | Login to/Read Twiki, Drupal, Wordpress, CodiMD | | | | | | | | | | | | | | | | | |
| | CERN websites (Alumni, ILOs, Pension Fund, CHIS) | | | | | | | | | | | | Limited | | | | | |
| | CDS content (behind SSO) | | | | | | | | | | | | Limited | | 2 | | | |
| | Mendatory online safety / security training courses | | | | | | | | | | | | | | | | | |
| | Official notifications + News | | | | | | | | | | | | | | | | | |
| | Phonebook | | | | | | | | | | | | | | | | | |
| | Personal home directory quota (CERNbox, Office A1 M365) | | | | | | | | | | Limited | Limited | | | | | | |
| | Central Compute Services (AFS, EOS, LXPLUS, LXBATCH) | | | | | | | | | | | | | | | | | |
| | CERNPhone | | | | | | | | | | | | | | | | | |
| | Create earoups | | | | · · | 2 | 2 | 2 | | , | | 2 | | | | | | |
| | EDH EDH | | | | | | Limited | Limited | | | | | Limited | | | | | |
| | ESET Security software (CERN managed devices) | | | | | | Dimited | Limiseo | | | | | Limited | | | | | |
| | ESET Security software (CDIN managed devices) | | | | | | | | | | | | | | | | | |
| | | | | | | | Limited | Limited | Limited | Limited | | | | | Limited | | | |
| | Other Learning courses | - | | | Limited | Limited | Limited | Limited | Limited | United | | | | _ | Limited | - | | - |
| | Controlled resources | In Portal? | | | | | | | | | | | | | | | | |
| | Controlled resources Computing account / way to authenticate | m rortar | | | | | _ | | | | | | _ | | | | | |
| | Computing account / way to authenticate Service Now (be a supporter) | N | | | | | | | | | | | | | | | | |
| | Create Twiki, Drupal, Wordpress, CodiMD | N | | | | | | | | | | | | | | | | |
| | Create Twilo, Drupal, Wordpress, CodiMD Grid certificates | Y | | | | | | | | | | | | | | | | |
| | Grid certificates Java JDK JRE | Y | | | | | | | | | | | | | | | | |
| | | Y | | | | | | | | | | | | | | | | |
| | Google Workspace Overleaf, Gitlab, Atlassian, Zoom | | | | | | | | | | | | | | | | | |
| | | Y | | | | | | | | | | | | | | | | |
| | Digital Ubrary (ebooks + journals + ILS Ubrary Catalogue) | Y | | | | | | | | | | | | | | | | |
| | Microsoft (Windows + Office AS M365) | Y | | | | | | | | | | | | | | | | |
| | CAD/CAM & Engineering software | Y | | | | | | | | | | | | | | | | |
| | Create redirections (mail) | Y | | | | | | | | | | | | | | | | |
| | CERN redirection alias as connection string | N | | | | | | | | | | | | | | | | |
| | Mailbox + CERN email | Y | | | | | | External | | | | | | | | | | |
| | Access to CERN resources portal? | | | | | | | | | | | | | | | | | |

IT Strategic Technical Delivery Forum

(STDF) 11th September



Defining eligibility for a service

- IT Strategic Technical Delivery Forum Which users are eligible or subscribed to a service (STDF) 11th September
 - According to the "Eligibility Matrix"
- Define roles (sets of groups) to determine:
 - Who is eligible, i.e. can subscribe _
 - Who is subscribed (optional: self-subscription group) -
 - Who is denied access, overriding eligible / subscribed -
- Get subscriptions with a call to a REST API







Resources

- Resource: element provided by a service for which we want to track lifecycle and IT Strategic Technical Delivery Forum ownership individually
- **Personal resource:** lifecycle bound to the owner
 - Not necessarily for personal usage. Example: mailbox or software license -
 - Cannot be transferred to a new owner
- Official resource: lifecycle bound to a service or application
 - Currently owned by persons
 - In the new model, official resources should be assigned to **Resource Groups** _



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Resource Groups (blessed by ARB)

- A Resource Group (RG) is a grouping of official resources
 - For a common operational purpose (service or application)
- A RG is owned by an organisational unit with budgetary responsibility
 - E.g. a CERN Department or an (official graybook) experiment
- Users can manage resources in a RG if:
 - They are owners or administrators of the RG
 - They have the permissions required by the service
- Resources in a RG do not have a lifecycle
 - The <u>RG does have lifecycle(more later)</u>



Organisational Unit: ZZ Experiment Owner: B. Gibbons Administrators: zz-coordinators Budget code: 12345

| Resource Group: ZZ Data Processing | Resource Group: ZZ Access Control |
|------------------------------------|-----------------------------------|
| Owner: F. Beard | Owner: D. Hill |
| Administrators: zz-data-experts | Administrators: zz-access |
| Resource | Resource |
| Oracle Database | AFS Workspace |
| Resource | Resource |
| Openstack Project | DB On Demand |
| Resource | Resource |
| Service Account | PAAS Website |

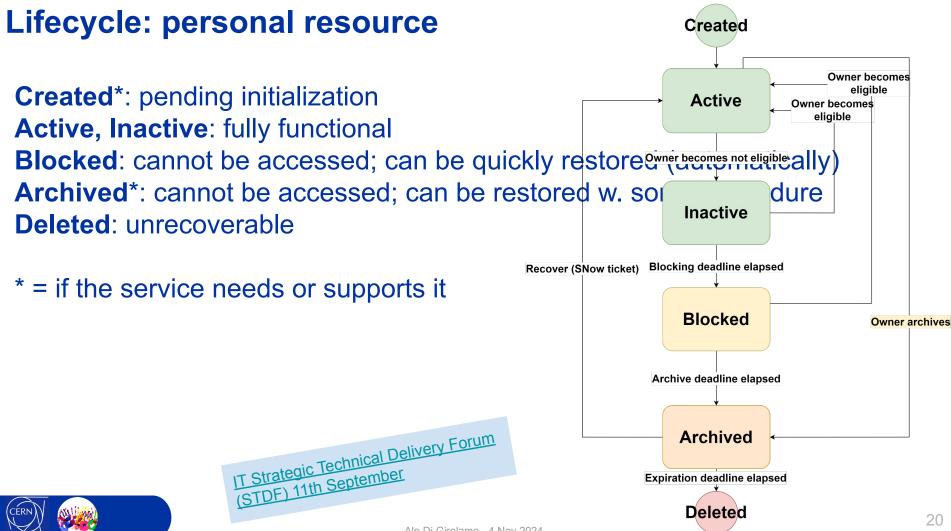


Resources lifecycle

- Each resource has a **state** that changes through its lifecycle
 - Model agreed with STDF 2023 Resource Lifecycle Working Group
 - IT services providing resources should follow this lifecycle model
- Lifecycle events are triggered by
 - Changes in the owner's eligibility status
 - Grace periods elapsing







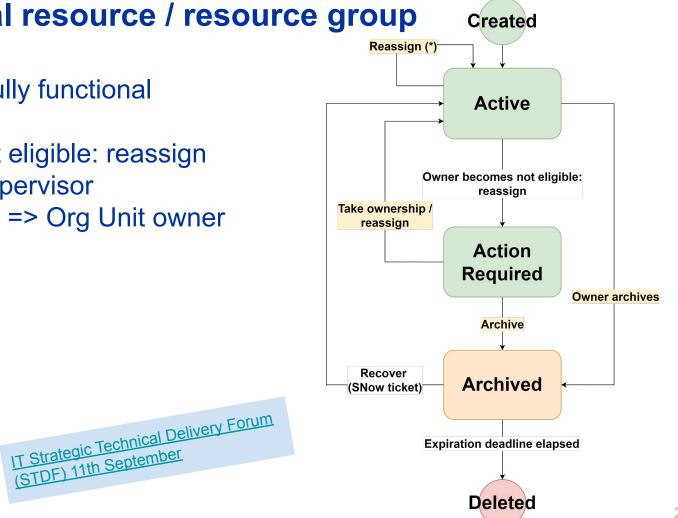
Lifecycle: official resource / resource group

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Action Required: fully functional

Owner becomes not eligible: reassign

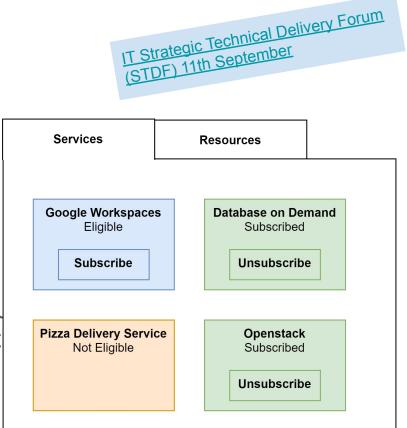
- Resource => supervisor
- Resource group => Org Unit owner





Resources portal: Services view

- See which services I can access
 - Eligible = I can subscribe if I want
 - Subscribed = I can use the service
 - Not eligible = I cannot subscribe
- Subscribe or unsubscribe
 - If the service allows it
 - If not, instructions on the procedure
- Subscribed != I own resources
 - "I'm a DBOD user" means that I can requestion service, not necessarily that I own a part
 - For that, there is a dedicated view...





Resources portal: Resources view

- View and manage the resources I own
 - My website, my secondary accounts...
- Resources belonging to my resource groups
 - I'm FTS and BATCH admin => see FTS and BATCH resources

| Services | Resources | | |
|--|--|--|--------------------------|
| Personal | FTS Service (Resource Group) | BATCH Service (Resource Group) | |
| Database on Demand Instance A Instance B | Database on Demand (detailed view of select Description: a database Owner: Someone Else | ted resource) we with some data in it | |
| Openstack Projects Project 1 Project 2 | Administrators: the-ad | mins-group | |
| | Open in DBOD portal | Archive / Delete | Change Resource Group |





Integrating your service

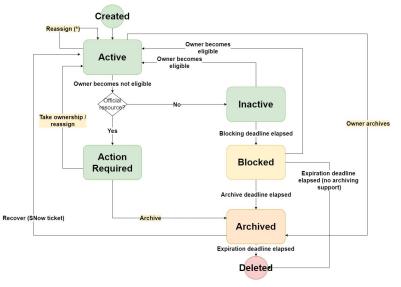
"Community" mode

- Track users eligibility

| Eligible | | | Limited = limited access | controlle | d by egroups | , or for a limi | ted time perio | d | | | | | | | | | |
|--|------------|--|---|-----------------------|-------------------|-------------------------------|--|--|-----------------------------------|-------------------------------------|--|----------|---|-----------|--|---|----------|
| Not Eligible | | | | | | | | | | | | | | | | | |
| Eligible with Guarantor approval | | | | | | | | | | | | | | | | | |
| Categor | Y | MPEs | & MPAs | Ri | emote Partic | ipants | | 0 | ontactors & Exte | ernals | | Retirees | | | Other | | |
| | | MPEs + Trainees: (STAF, FELL, GRADs + Temp. Labour + EXTN RETC, MPAE: ADMI, APPR, DOCT, SUMM, TECH, TRNE) | Collaborators + Exchange Scientists (MPAc: COAS, EXAS, PJAS, USER + MPAa: CASS, GPRO, SASS, VISC) | EXTN PART, RETP | EXTN DIST | Future MPs (UOPR, FTMP) | Employees of CERN Contractors (computer users) | Employees of CERN Contractors (non- computer users) | STAG, PROJ, | | EXTN Group C (ACCO, HOST, KIND, VISI, CLUB) | Retiree | Ex-Member of Personnel (Grace Period 2 months) | Alumni | Ex-Member of Personnel (non- contractors) | Ex-Member of Personnel (Externals + contractors) | Visitors |
| Responsible body (who approves rules of eligibility) | | HR / IPT | HR / EP | EP | GTPA | HR/ Users Office | IPT Dept. | IPT Dept. | GTPA | GTPA, HR-LD (FORM), PF (GACR) | | PF | HR | IR | HR | GTPA + IPT | IR |
| Guarantor (who approves requests) + Licence Manager | | Supervisor | Supervisor / Team Leader | Team Leader | CERN Guarantor | Future Supervisor | Technical Officer * | Technical Officer * | CERN Guarantor / Supervisor | CERN Guarantor | N/A | N/A | N/A | IR | N/A | N/A | N/A |
| Population size JAN 2023 | | 3233 | 12913 | 7168 | 577 | 141 | ca. 300 | ca. 4270 | 697 | 61 | 606 | ca. 3800 | | ca. 8000 | | | |
| Basic resources | | | | | | | | | | | | | | | | | |
| Register device(s) on CERN network / connect to CERN wifi Bulletin | | | | Visitors | Visitors | Visitors | | | | | Visitors | | Visitors | Visitors | Visitors | Visitors | Visitors |
| Mattermost, Discourse | | | | | | | | | | | | | | | | | |
| Security Services: firewall (PAN), mail quarantine (xorlabs) | | | | | | | | | | | | | | | | | |
| Tax certificates, attestations, salary slips | | | | If was MR | P If was MP | If was MP | If was MP | If was MP | If was MP | If was MP | If was MP | Limited | If was MP | If was MP | If was MP | N/A | N/A |
| Be part of eGroups | | | | | | | | | | | | | | | | | |
| Indico content (behind SSO) | | | | | | | | | | | | Limited | | | | | |
| Webcasts (behind SSO) | | | | | | | | | | | | Limited | | | | | |
| Login to/Read Twiki, Drupal, Wordpress, CodiMD CERN websites (Alumni, ILOs, Pension Fund, CHIS) | | - | | | | | | | | | | Limited | | | | | |
| CDS content (behind SSO) | | | | | | | | | | | | Limited | | | | | |
| Mandatory online safety / security training courses | | | | | | | | | | | | Limited | | | | | |
| Official notifications + News | | | | | | | | | | | | | | | | | |
| Phonebook | | | | | | | | | | | | | - | | | | |
| Personal home directory quota (CERNbox, Office A1 M365) | | | | | | | | | | Limited | Limited | | | | | | |
| Central Compute Services (AFS. EOS. LXPLUS. LXBATCH) | | | | | | | | | | Chanter | Chinaco | | | | | | |
| CERNPhone | | | | | | | | | | | | | | | | | |
| Create egroups | | | | 2 | ? | 2 | 2 | | , | 2 | 2 | | | | | | |
| EDH | | | | | | Limited | Limited | | | | | Limited | | | | | |
| ESET Security software (CERN managed devices) | 1 | | | | | | | | | | | | | | | | |
| ESET Security software (BOYD) | | | | | | | | | | | | | | | | | |
| Other Learning courses | | | | Limited | Umited | Limited | Umited | Limited | Umited | | | | | Umited | | | |
| | | | | | | | | | | 1 | | | | | | | |
| Controlled resources | In Portal? | | | | | | | | | - | | | | | | | |
| Computing account / way to authenticate | N | | | | | | | | | | | | | | | | |
| Service Now (be a supporter) | N | | | | | | | | | | | | | | | | |
| Create Twiki, Drupal, Wordpress, CodiMD | Y | | | | | | | | | | | | | | | | |
| Grid certificates Java JDK JRE | Y | | | | | | | | | | | | | | | | |
| Java JDK JRE Google Workspace | Ŷ | | | | | | | | | | | | | | | | |
| ocogie workspace Overleaf, Gitlab, Atlassian, Zoom | Y | | | | | | | | | | | | | | | | |
| Digital Library (ebooks + journals + ILS Library Catalogue) | Y | | | | | | | | | | | | | | | | |
| Microsoft (Windows + Office A5 M365) | Y | | | | | | | | | | | | | | | | |
| CAD/CAM & Engineering software | × | | | | | | | | | | | | | | | | |
| Create redirections (mail) | Y | | | | | | | | | | | | | | | | |
| CERN redirection alias as connection string | N | | | | | | | | | | | | | | | | |
| Mailbox + CERN email | Y | | | | | | External | | | | | | | | | | |
| Access to CERN resources portal? | | | | | | | sandingi | | | | | _ | | | | | |

(STDF) 11th September "Enterprise" mouei

- Track users eligibility
- Resources lifecycle



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- Documentation: <u>https://auth.docs.cern.ch/</u> -> Resource Lifecycle



Integration - Community edition IT Strategic Technical Delivery Forum

- Roles (sets of groups) determine:
 - Who is eligible, i.e. can subscribe
 - Who is subscribed (optional: self-subscription group) _
 - Who is denied access, overriding eligible / subscribed
- Automatic subscription: dynamic group mapped to "subscribed"
- On-demand subscription: static group mapped to "subscribed"
 - Group administrator approval = subscribe with guarantor
- Group membership restrictions can enforce validity of on-demand subscriptions
 - I subscribed to an opt-in group but I'm no longer eligible => the service will enforce the restriction automatically

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- Get subscription to your service with a call to the REST API
 - No need to implement subscription logic on your side _



"identity": {

"identity": {

3.

3,

3,

"upn": "slaurel",

"status": "eligible"

"upn": "ohardy",

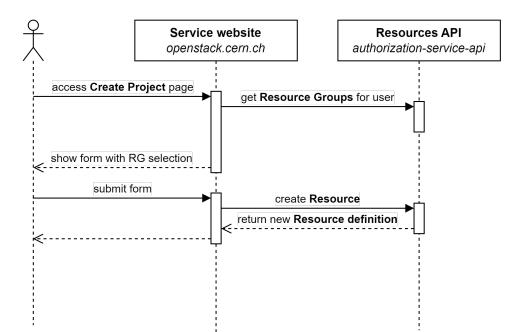
"personId": 424242

"status": "subscribed"

"personId": 123456

Integration - Enterprise edition

- Resources managed on your portal -
 - All logic and functionality on resources portal would make it unmaintainable -





IT Strategic Technical Delivery Forum

(STDF) 11th September

Integration - Enterprise edition

- Get resources state and ownership with a call to the REST API
- Implement the actual procedures for blocking, unblocking, archiving...
- Ownership and state changes enforced by Resources service IT Strategic Technical Delivery Forum
 - No need to implement lifecycle logic on your side -



(STDF) 11th September

The Old Resource Portal must die

- Old and new services running in parallel increase load on Authentication team
- Infrastructure running on old hardware
- Priority on the following services:
 - Services on the old infrastructure
 - Major infrastructure services (storage, compute)
 - Services in the "Controlled Resources" part of the eligibility matrix





Services on old infrastructure

- Migrate service "as is" in a first step if necessary
 - Better integration and RG support can be achieved at later stages
- Enterprise model:
 - Oracle
 - AFS (lifecycle needed for Workspaces) -
 - Openstack (integration ongoing)

- Community model:

- Windows Terminal Server
- Electronic Design Automation
- WinCC-OA Scada (Pvss)
- Custom functionality in old portal:
 - Lxplus and Linux
- Informational / links only
 - EOS/CERNBox

IT Strategic Technical Delivery Forum

(STDF) 11th September

ARB review of Resource Portal

- ARB review of Resource Portal is ongoing



- Goal is to understand and clarify the interaction with all the services that make use of the RP
- And to introduce the Resource Ownership model
 - ...whereby standard "prod" resources are conceptually owned by a service rather than a person, via a Resource Groups
 - single place to update responsible person / admin group for everything in the RG
 - accounted for, because a Resource Group is owned by an Org Unit
 - compatible with external cloud provider resources

What we need (would like!)

- Validation of the NRP <u>API</u> and <u>model</u> (still conceptual as of now) by the service experts (check if it's good enough)
- High-priority services (EF matrix Controlled Resources + Old Resource Portal critical + big infrastructure services):
 - Evaluate the integration effort needed to integrate the services in the NRP,
 - can the above be done by the POW?
 - Define a plan for the integration
 - For the TD workplan 2025





New Resource Portal 1/3 - new features & improvements



- Implemented eligibility criteria for applications; service managers can
 - Define eligible / subscribed roles for their services Ο
 - Get the list of subscribed users according to the defined criteria Ο
- Users can see both resources they own and they are administrators of
- Easier API calls for integrated services
 - Return all basic relevant information in a single call (owner, administrators) Ο
- Faster recursive group memberships API calls (relevant for eligibility status support)
- Reorganized the internal data structures for services and managed resources IT Steering Committee 19 June 2024
 - Better support for the eligibility framework Ο
- Update to .NET 6
 - minimize technical debt \bigcirc



New Resource Portal 2/3 - current work

• Providing a state for resources

- Following discussions with the Lifecycle Working Group
- Will require reviewing several internal procedures (lifecycle)
- Completing integration with Openstack.
 - Still missing:
 - Resources state
 - Delegation features currently in old Resources portal (to be migrated to Openstack)
 - Estimate: end of 2024
- ARB review of resources and lifecycle
 - Questionnaire
- Reviewing the Service Desk portal
 - Improve users' support
 - Improve the Service Desk tools to manage the most common support tickets
 - Free up time for the team to work on other features



CÈRN

IT Steering Committee 19 June 2024

New Resource Portal 3/3 - future developments

- Google Workspace integration
- Tenant-based resource ownership
 - Several open points in ARB recommendation



• Once the resources in the "old" portal have been migrated to the NRP:

- Account management migration: accounts created and deleted by the new system, new portal for users and ServiceDesk migration to the new one.
- Need migration from Microsoft Forefront Identity Manager (FIM, support stopped in 2016) to Microsoft Identity Manager (MIM)
- ID for life:
 - Related to the Account management migration.



More (old) material - IT Steering Committee (Feb 2023)



Eligibility Framework: IT Steering Committee in Feb 2023

| | | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---------------|---|--|--|---------------|----------------------|--------------------------|---------------------|------------------------|--------------|---------------------|-----|
| Timeline | Validation of Eligibility criteria | Jsage atistics, i-ref. legal, etc., cost Sign r service D Validate wi Resp. bodi | ept. th es Sign off with | | | | | | | | |
| me | Resource Portal | C | resp. bodies Data + Design | Prototyping U | ser testing Data + I | Design Develop | User testing | Release & Su | pport Decomm | ssion old solutions | |
| Ē | EDH Request + Approval document | | Data + Design | Prototyping | User testing Data - | Design Develo | p User testin | g Release & S | upport | | |
| ion | Access Management | | | | | | | | | | |
| mplementation | Process design & implementation of eligibility criteria, clean-up of accesses | Legal + gove body input EXTN + EN email eligib Design of clean-up implem't'n emails | on implem'th of eligibility criteria ENT(& EXTN ema / of | | | | | | | | |
| lmp | Access removal process design | eligibility | | | | | | | | | |
| | Show-back mechanism for controlled resources costs | | | | | | | | | | |
| | Stakeholder Communication | | | | Why, how, whe | n, ask for feedback, rea | ct to measurements, | share, reiterate | | | |
| | Measurements | Initial usage stats | Design monitor of usage | ring | | | Regular cadence of | of monitoring of usage | | | |

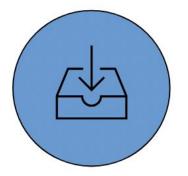




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CERN IT dept meeting Feb 2023





Computing accounts will be activated automatically and the resource portal will manage access to a set of high priority-controlled resources with corresponding consumption figures made available



Eligibility Framework matrix

| CERN | |
|---------------|--|
| | |
| \mathcal{P} | |

| Eligible | | 1 | Limited = limited access | scontrolle | ed by egroup | s or for a lim | ited time periv | od | | | | | | | | | |
|--|------------|--|-----------------------------|-----------------------|-------------------|------------------------|--|------------------------|---|-------------------------------------|--|----------|---|-----------|--|---|----------|
| Not Eligible | | | | control | A Dy cB. och -) | , 01 101 0 11 | ited enne parts | | | | | | | | | | |
| Eligible with Guarantor approval | | | | | | | | | | | | | | | | | |
| Category | v | MPFs | & MPAs | R | Remote Partici | cipants | 1 | 0 | ontactors & Exte | rnals | d | Retirees | | | Other | | - |
| | | MPEs + Trainees: (STAF, FELL, GRADs + Temp. Labour + EXTN RETC, MPAt: ADMI, APRP. DOCT. SUMM | Collaborators + | EXTN PART, RETP | | Future MPs | Employees of CERN Contractors (computer users) | Employees of CERN | EXTN Group A (GUID, ILOF, STAG, PROJ, EUPR, SCIE, COMT) | | EXTN Group C (ACCO, HOST, KIND, VISI, CLUB) | Retiree | Ex-Member of Personnel (Grace Period 2 months) | Alumni | Ex-Member of Personnel (non- contractors) | Ex-Member of Personnel (Externals + contractors) | Visitors |
| Responsible body (who approves rules of eligibility) | | HR / IPT | HR / EP | EP | GTPA | HR/ Users Office | IPT Dept. | IPT Dept. | GTPA | GTPA, HR-LD (FORM), PF (GACR) | GTPA, HR-SA (KIND, CLUB), IPT (VISI) | PF | HR | IR | HR | GTPA + IPT | IR |
| Guarantor (who approves requests) + Licence Manager | | Supervisor | Supervisor / Team Leader | Team Leader | CERN Guarantor | Future r Supervisor | Technical Officer * | Technical Officer * | CERN Guarantor / Supervisor | CERN Guarantor | N/A | N/A | N/A | IR | N/A | N/A | N/A |
| Population size JAN 2023 | | 3233 | 12913 | 7168 | 577 | 141 | ca. 300 | ca. 4270 | 697 | 61 | 606 | ca. 3800 | | ca. 8000 | | | |
| Basic resources | 1 7 | | / | | | | | | | | | | | | | | |
| Register device(s) on CERN network / connect to CERN wifi Bulletin Mattermost, Discourse | | | | Visitors | s Visitors | Visitors | | | | | Visitors | | Visitors | Visitors | Visitors | Visitors | Visitors |
| Security Services: firewall (PAN), mail quarantine (xorlabs) | | | | | | | | | | | | | | | | | |
| Tax certificates, attestations, salary slips | 1 | | | If was M | IP If was MP | If was MP | If was MP | If was MP | If was MP | If was MP | If was MP | Limited | If was MP | If was MP | If was MP | N/A | N/A |
| Be part of eGroups | 1 | | | 1 | | | | | | | | | | | | | |
| Indico content (behind SSO) | + | | | 4 | | | | | | | | Limited | | | | | |
| Webcasts (behind SSO) | + | | | | | | | | | | | Limited | | | | | |
| Login to/Read Twiki, Drupal, Wordpress, CodiMD | - | 1 | | 4 | | | | | | | | | | | | | |
| CERN websites (Alumni, ILOs, Pension Fund, CHIS) | + | | | 4 | | | | | | | | Limited | | | | | |
| CDS content (behind SSO) | | | | 4 | | | | | | | | Limited | | 2 | | | |
| Mandatory online safety / security training courses | | | | 4 | | | | | | | | Lanner | | 100 | | | |
| Official notifications + News | | | | 4 | | | | | | | | | | | | | |
| Phonebook | + | | | | | | | | | | | | - | | | | |
| Personal home directory quota (CERNbox, Office A1 M365) | | 1 | | 4 | | | | | | Limited | Limited | | | | | | |
| Central Compute Services (AFS, EOS, LXPLUS, LXBATCH) | | | | 4 | | | | | | Linite | chinec | | | | | | |
| CERNPhone | + | | | | | | | | | | | | | | | | |
| Create egroups | | | | 2 | ? | 2 | 2 | | 2 | 2 | 2 | | | | | | |
| EDH | | - | | | | Limited | Limited | | | 10 | | Limited | | | | | |
| ESET Security software (CERN managed devices) | - | | | | | Chines | Chinaco | | | | | Linnee | | | | | |
| ESET Security software (CERN managed devices) ESET Security software (BOYD) | + | | | | | | | | | | | | | | | | |
| Other Learning courses | | | | Limited | d Limited | Limited | Limited | Limited | Limited | | | | | Limited | | | |
| Other Learning courses | + | - | | Linnea | Lilinico | Linnes | Linness | Linnes | Linness | | - | | | Linnes | | | |
| Controlled resources | In Portal? | / | / | 1 | | | | | | | | | | | | | |
| Computing account / way to authenticate | N | | | | | | | | | | | | | | | | |
| Service Now (be a supporter) | N | | | | | | | | | | | | | | | | |
| Create Twiki, Drupal, Wordpress, CodiMD | Y | 1 | | | | | | | | | | | | | | | |
| Grid certificates | Y | | | 4 | | | | | | | | | | | | | |
| Java JDK JRE | Y | | | | | | 1.000 | | | | | | | | | | |
| Google Workspace | - | | | | | | | | | | | | | | | | |
| Overleaf, Gitlab, Atlassian, Zoom | Y | | | | | | | | | | | | | | | | |
| Digital Library (ebooks + journals + ILS Library Catalogue) | Y | | | | | | | | | | | | | | | | |
| Microsoft (Windows + Office A5 M365) | Y | | | | | | | | | | | | | | | | |
| CAD/CAM & Engineering software | Y | | | | | | | | | | | | | | | | |
| Create redirections (mail) | Y | | | | | | | | | | | | | | | | |
| CERN redirection alias as connection string | N | | | | | | | | | | | | | | | | |
| Mailbox + CERN email | Y | | | | | | External | | | | | | | | | | |
| Access to CERN resources portal? | | - | | | | | External | | | | | | | | | | _ |
| Access to CERN resources portain | | 0 | | | | | | | | | | | | | | | |

