Report of the Teams and Committees of the TYPO3 Association for 2021

Academic Committee

Accessibility Team 5
  What the Accessibility Team accomplished in 2021 5
  Continue with regular Accessibility Hour 5
  Real user tests for most important accessibility issues 5
  Preparation to enable testing of changes in review by external users 5
  Assistance from the beginning of the plans to do a typo3.org relaunch 5
  Planning Accessibility Sprint 2022 5
  Roadmap for the Accessibility Team in 2022 5

Community Expansion Committee 6
  TYPO3 International Mentorship Program second edition 6
  Activities presenting TYPO3 to new audiences 6
  Develop the dialogue with key international organizations and stakeholders 7
  Plans and goals for 2022 7

Core Team 8

Demo Project Team 9
  Team 9
  Work on the project 9
  Highlights 9
  Outlook for 2022 11

Documentation Team 12

Education Committee 13
  General 13
  Team organization 13
  Further development of the TYPO3 certification program. 13
  On-site certifications 14
  Online certifications 14
  CertiFUNcation 14
  Mailing of certificates and update of the online listing 14
  Entry Level Certification 14
  Outlook 2022/23 (not the software) 15

Event Team 16

Marketing Team 17
  Release Communication for v11 LTS 17
  typo3.org relaunch 17
  Marketing goals & guidelines 17

Security Team 18
Budget 18
Activities 18
   Penetration Testing 18
   Security Incident Handling 18
      TYPO3 Core 18
      TYPO3 Extensions (3rd party) 19
      New Package typo3/html-sanitizer published to PHP Community 19
      TYPO3 v11 security enhancements 19
   Static Application Security Testing (SAST) 20
   Bug Bounty Program 20
   Budget report 2021 21
   Outlook 21
Server Team 22
typo3.org Team 23
   General 23
   Project typo3.org 23
   Project extensions.typo3.org 23
   Project voting.typo3.org 23
   Project get.typo3.org 23
   Outlook 24
      General 24
      Project typo3.org 24
      Project extensions.typo3.org 24
      Project get.typo3.org 24
UX Team 26
   Pilot system 26
   Demo website for testing the pilot 26
   User Testing 26
   Workflow with the Core Team 26
Academic Committee

https://typo3.org/community/teams/academic-committee
Contact: Martina Alswede
Email: ahlswede@luis.uni-hannover.de

The TYPO3 Academic Committee is made up of TYPO3 Association members from universities that use TYPO3-CMS for their websites. It was founded in November 2016.

The Academic Committee organizes the TYPO3 University Day, together with the host university. 2021 (as already in 2020) due to the corona pandemic the TYPO3 University Day was switched to an online event.

2021 the TYPO3 Online University Day took place from September 22-23, 2021, at an online location. The event was organized by by the University of Weimar and Ulm University:
Website: http://t3ud.uni-weimar.de/
For all those who were unable to attend or would like to listen again, we have compiled the video recordings and the slides on the conference page:
https://t3ud.uni-weimar.de/programme/

Picture 1:
TYPO3 University Days 2021 - due to Corona as an Online Event. Ulfried Hermann of Bauhaus University of Weimar is showing Weimar City.
Half of the voting members and 2 substitute members are elected at the annual TYPO3 University Day. Universities with TYPO3 membership are eligible to vote. The term of office is 2 years. The TYPO3 Association member is appointed by the Board.

At the last online University Day (organized by University of Weimar) four members of the academic committee got re-elected. One new member got elected and one new advising member got elected.
More information about the Academic Committee and the current members:
https://typo3.org/community/teams/academic-committee/

Over the years the Academic Committee developed the TYPO3 University Community package (T3UP). The community package T3UP has been continuously developed in the current year as well as the documentation. The package, which sees itself as a best practice, was converted to Bootstrap 5. In addition, T3UP was extended with the extension t3up_container, which provides grid elements analogous to the grid elements, including accordions, tabs, columns. Dynamic elements for news, slider and container-/grid elements are now directly controlled by Bootstrap 5, without additional javascripts.

If someone wants to join the Academic Committee please contact
Martina Ahlswede (ahlswede@luis.uni-hannover.de)

The next University Day date and location will be published at
https://typo3.org/community/teams/academic-committee/
All representatives of universities that use TYPO3 or are considering using TYPO3 are invited!
Accessibility Team

https://typo3.org/community/teams/accessibility
Contact: Michael Telgkamp
Email: michael.telgkamp@typo3.org

What the Accessibility Team accomplished in 2021

Continue with regular Accessibility Hour
We meet each 3rd Friday of the month at 2pm CET. The monthly meeting in our slack channel #accessibility is an open event and everybody is welcomed to join. The accessibility hour can be used to discuss accessibility topics and ongoing and planned work for accessibility in TYPO3.
We encourage developers of features for TYPO3 to get in contact with us, for improving the accessibility of these features.

Real user tests for most important accessibility issues
Two accessibility case studies from the daily work of a blind editor, and the experience of a blind tester. More information on this article.

Preparation to enable testing of changes in review by external users
We collaborated with the server team to create an instance of a TYPO3 server that will enable us to create a basic auth protected instance of TYPO3 on a specific patch set. This will enable external users (for example users with a disability) to test a review without the need to set up the development environment on their own.

Assistance from the beginning of the plans to do a typo3.org relaunch
We are in good contact with the relaunch team and offered our help to prevent accessibility issues in the process of relaunching typo3.org.

Planning Accessibility Sprint 2022
We are currently in the planning phase for the next Accessibility Sprint which will take place in Fall 2022.

Roadmap for the Accessibility Team in 2022

- Continue to support the community on accessibility questions
- Improve and deliver TYPO3-related accessibility presentations at user groups, conferences, webinars, etc.
- Improve the collaboration with other Teams
- Perform an Accessibility Sprint
- Join other team sprints to have accessibility awareness and help improving the accessibility on all occasions
- Join TYPO3 Community Sprints to bring forward the accessibility of TYPO3
Community Expansion Committee

https://typo3.org/community/teams/community-expansion
Contact: Daniel Homorodean
Email: daniel.homorodean@typo3.org

TYPO3 International Mentorship Program second edition

After the first successful edition done in 2020 when the TYPO3 experts have mentored web developers from 5 countries (Zimbabwe, Chile, Benin, Cuba, and Rwanda), the 2021 edition has new mentees and new mentors who volunteered. We had a delayed start because the mentors were very busy with their normal work and we had more candidate mentees which needed to be evaluated because some of them did not have the proper prequalifications (enough web development experience) to qualify for the program. We started with mentees from Bosnia, Armenia, Zimbabwe and South Africa. Some of them did not show enough discipline and have dropped along the way. The ones from Bosnia and Zimbabwe have completed with success the program and have continued to learn and to work using TYPO3. James from Zimbabwe has documented his journey on his blog thus further promoting TYPO3 in his country and in his network:
https://dantedecodes.hashnode.dev/typo3-mentorship-program-sessions-compiled

We had the following mentors in the program in 2021: Sergio Catala, Tomas Norre Mikkelsen, Rudy Gnoddé, Stefan Schmitt, Alina Fleser. Later 2 more mentors joined (Michiel Roos, Altan Tosun) that will be involved in the 2022 edition.

Activities presenting TYPO3 to new audiences

In 2021 the possibilities for in person meetings remained limited but still possible, especially in the second part of the year when people were more open to travel and meet. During the year we have participated with TYPO3 presentations in several online events, have done specific dedicated webinars, have presented TYPO3 during in-person meetings and organized a dedicated in-person event.

In summary, the presentations were given to:

- CONNECT.KG Conference & Expo organized virtually by the US embassy in Bishkek, Kyrgyzstan, for the Central Asian countries and their IT communities. TYPO3 had a dedicated presentation slot (16 March). As result we have developed connections with stakeholders from the region and had subsequent meetings with them.
- In August we’ve met in-person with the High Technology Park of the Kyrgyz Republic, the IT association of Kyrgyzstan (KSSDA) and the “IT Academy” informal IT conversion school, we’ve presented TYPO3 and the mentorship program
- TYPO3 was presented at 2 editions of the “Developers for Africa” online event organized by Google, in April and July
- TYPO3 was presented at “CMS Africa Summit” in September, event which has been organized online
- In October, we organized an in-person event in Kampala, Uganda, in collaboration with ATIS UG (Alliance for Trade in Information Technology and Services), the national association of software development companies. As result after the event we
had 6 requests for mentorship, from developers that are part of 3 local Ugandan web agencies

- We have presented TYPO3 and discussed its potential for use for government and public administration, with web agencies from Ethiopia, Benin and Guinea which are developing websites for their public sector
- TYPO3 was presented to the board of APESOFT (Asociación Peruana de Desarrolladores de Software y Servicios Relacionados), the national Peruan association of IT companies, during an in-person meeting in Lima, Peru, in December

Develop the dialogue with key international organizations and stakeholders

We have extended the discussion with GIZ Rwanda in order to get support for the establishment of a model of practice involving TYPO3 as the standard technology for governmental websites in developing countries, on the model that was taken by Rwanda in 2019-2020 with good success.

Plans and goals for 2022

We have the following main goals for 2022:

- To extend the mentorship program in more countries, with more mentees and more mentors. We already have the mentors and mentees ready to start. Waiting for the budgets to be approved to know the total available for the rewarding of the members
- Extending the direct promotion of TYPO3 towards relevant stakeholders: governments and IT associations, through meetings online and in-person (as much as possible) and organization of local events dedicated to present TYPO3 to the local communities
- Develop the relation with GIZ and other international donor organizations to get additional logistic and financial support for the organizations that would embrace TYPO3 in the developing markets (institutions and web agencies)

It will be of great help for the extension and success of the Mentorship Program if the established TYPO3 Agencies would be interested to take graduate mentees into internships to give them the working context in which they can improve their TYPO3 knowledge.

The committee is always open for new participant members.
Core Team

https://typo3.org/community/teams/typo3-development
Contact: Benni Mack
Email: benni@typo3.org

In 2021 the TYPO3 Core Development had its focus on releasing a stable TYPO3 v11 with key improvements in Security and User Experience as well as performance. TYPO3 v11 has had 6 releases in total, with the TYPO3 v11 LTS release in early October marking the release a great success.

The strategy was to fix long-standing issues from the Ticketing System Forge, as well as stabilizing our APIs (DataHandler, Extbase), moving towards better standards, and unifying our data layers. New functionality such as Multi-Factor-Authentication is a key feature for Enterprise businesses these days, and TYPO3 now includes this by default. One major improvement however was the unification of UI elements in the TYPO3 Backend, making the whole system more robust and also much more flexible.

TYPO3 v11 is packed with lots of new features, but also has addressed many downsides users complained about in the past. We are continuing in developing TYPO3 Core in 2022 to ensure a bright future of our favorite CMS.

More information about TYPO3 v11 LTS:
https://typo3.org/project/press/typo3-v11-release-material
Demo Project Team

https://typo3.org/community/teams/demo-project
Contact: Desirée Lochner
Email: desiree.lochner@b13.com

Team
We were happy to welcome two new team members to the team which makes us six team members so far.
We were able to establish a monthly team meeting (last Tuesday of the month at 3:30pm).

Work on the project
There have been several improvements to the infrastructure of the system:

- We provided a regularly created content dump of the demo website so people can set up a full system on their local machines.
- We created a “Learn more” page to give some more information on the system for developers (e.g. how to set up the project on a local machine).
- We have also been working on making the reset feature more sturdy in order to make sure it works reliably.
- Update to TYPO3 v11; Go-Live on December 3rd, 2021

Furthermore, we added some new features to the project:

- Integration of EXT:form
- Implementation of structured data for the FAQ page
- Implementation of a Hebrew translation of the website (as an example for a website that is read from right to left)
- We have also finalized a concept and design for a search function on the website.

The cooperation with the education team in terms of a “custom demo project” which we had conceptualized throughout Q3 came to an end due to the conclusion that the demo project team will not be needed for the process any longer.

Highlights
1. Presenting a website and showing what working in the backend with an “exotic” language, like Hebrew, looks like in TYPO3.
2. The positive feedback and many users appreciating the project (more than 38.5k visitors and 163k views last year from all over the world).
Outlook for 2022

- Integration of Solr search
- Implement best practices for backend preview
- Finalize rich snippets
- Integration of doktype mapper
- Implementation/integration of a headline extension in order to make structuring a page more flexible for editors
- Continuation of maintenance and quick bug fixing
- Team sprint (originally planned for April 26, 2022; had to be postponed due to the budgeting process)
Documentation Team

https://typo3.org/community/teams/documentation  
Contact: Martin Bless  
Email: martin.bless@typo3.org

The TYPO3 documentation tools are constantly improved by the TYPO3 Documentation Team to support you, the reader, in getting comprehensive information and quickly finding answers to your questions, and to help you, the author, in creating documentation and to increase the visibility and popularity of your extension in the TYPO3 world.

There has already been published an extensive article about the work in 2021.  
Read it on typo3.org!
Education Committee

https://typo3.org/community/teams/education-certification
Contact: Marc Willmann
Email: marc.willmann@typo3.org

General
The year 2021 was difficult for the Education Committee. Due to the pandemic, no face-to-face meetings were possible, which made the work more difficult, especially between the different certification task forces. Furthermore, there were absences of important members of the Education Committee for various reasons - Corona, personal or professional reasons or even the flood disaster caused temporary or permanent absences and thus problems in the teams.

Nevertheless the EduCom was able to engage and keep up the basic works with a solid base of core contributors (such as Michael Schams, Gernot Ploiner, Oliver Thiele, Florian Weiss, Peter Pröll, Marc Willmann, Andreas Wolf, Boris Hinzer)

Team organization
In the past, the work of the Education Committee has always benefited from sprints of varying size and focus. In addition to sprints in which we addressed visionary goals and team organization, there were numerous smaller sprints of the various task forces dedicated to working through current tasks. None of these sprints could be executed in 2021.

This had an impact on the team organization as well as on team cohesion and motivation. Individual task forces that, for example, mainly worked remotely even before the pandemic due to the large spatial separation of the members, had fewer problems here. For other task forces, the lack of presence was more noticeable. The situation was exacerbated by the fact that many team members' professional or private situations had changed and, understandably, other priorities had to be set temporarily or permanently.

Further development of the TYPO3 certification program.
One of the central tasks that the Education Committee is working on is the further development of the TYPO3 certification program. Here, unfortunately, we have to state that we have fallen short of our own expectations in 2021. We failed to achieve our self-imposed goal of upgrading all exams to this version as soon as TYPO3 11 LTS was released.

As of now, we expect to have 11 LTS related exams in about 3-4 weeks from now, based on the results and commitments made during our first 2022 On-Location Sprint about 2 weeks ago.

Together with TYPO3 GmbH and the TYPO3 Association, responsibilities in matters of certification were clearly regulated and competencies clearly defined. Starting with the release of TYPO3 12 LTS, the changeover of certification issues should take place a maximum of 12 weeks after LTS release.
On-site certifications
Due to the pandemic, no TYPO3 camps or other events where TYPO3 certification would have been possible took place in 2021. The TYPO3 Education Committee was in contact with some organizers, but had to turn down the request for certification due to security concerns. Most of the events then did not even take place.

Together with TYPO3 GmbH we made some in-house certifications possible at companies that wanted to certify their own employees. In doing so, a strict hygiene plan and, of course, compliance with the respective official requirements were taken into account.

Online certifications
The ongoing operation of the online certifications is essentially provided by TYPO3 GmbH and runs smoothly overall. When proctoring the exam, however, there are regular incidents that the Education Committee deals with and assesses the severity of the breach. Most of these are minor.

Participants sometimes tell us about problematic requirements imposed by the proctoring service provider. For example, pictures or calendars are to be taken down or filmed under the table (which is not so easy with a webcam in the monitor). Here we are in exchange with the provider to keep uniform and reasonable rules, where the participants do not feel constrained.

CertiFUNcation
The Education Committee is very happy to help the TYPO3 Association with the planning and execution of the CertiFUNcation. After we had to cancel CertiFUNcation 2020, it was clear early on that there would be no CertiFUNcation in 2021 (and 2022) either. Therefore, no planning was done for this. We hope to be able to invite to a CertiFUNcation again in 2023.

Mailing of certificates and update of the online listing
The fulfillment of the certificates is completely handled by TYPO3 GmbH. This has resulted in an exceptionally good processing time. The certificates are delivered by mail within a few days and published in the online listing.

Entry Level Certification
In accordance with the project idea, individual skills suitable for entry-level certification were identified from the existing certification and these were worked out as examples as a proof-of-concept.

An entry-level syllabus was created for each of the TCCE, TCCI and TCCD, learning resources and a training scenario were developed, and questions were selected or modified from the existing pool so that they fit the corresponding requirements.
For the further procedure, strategic questions must be clarified as to how these Entry Level Certifications can be integrated into the existing certification system or how they can meaningfully extend it. To this end, we are in contact with the TYPO3 Association and TYPO3 GmbH.

This subproject had its own budget (#6619). The project was implemented in-time and in-budget.

The created materials are published on typo3.org and can be used (https://typo3.org/article/typo3-entry-level-certification-status-update-september-2021).

Outlook 2022/23 (not the software)

As a results of our first on location sprints
- 11 LTS based exams coming appx. in next weeks available
- New contributors started their works on TCCE and TCCC question pools
- Building bridges also with certifications, eg. How to optimize the backend for a better editor experience, as an integrator
- Renewals of valid certs upcoming (deadline 30.06.2022)
- Weighting of the question pools, upcoming for 12 LTS
- Rework of knowledge sharing inside the team (eg. GSuite usage and Jira introduction)
- more topics, but not ready to announce
Event Team

https://typo3.org/community/teams/events
Contact: Rachel Foucard
Email: rachel.foucard@typo3.org

Regular Meetings with interested stakeholders, such as TYPO3 events organizers were held once a month to share experiences and ideas.

The TYPO3 Event Committee has subscribed to Digital-First Events for a stock of books and resources. We then can provide Camp organizers with a copy of the Digital First Events book and its associated resources.

As it was not possible for a second consecutive year to organize events on site we worked on a provisional concept of TYPO3 Online days. TYPO3 GmbH then took care of the entire organization down to the last detail. Thanks to the professionalism of the marketing team, the online days went off without a hitch.

TYPO3 GmbH will now also take over the complete organization of large official events such as the developer days, in order to ensure the high level of quality expected at such events.
Marketing Team

https://typo3.org/community/teams/marketing
Contact: Luisa Faßbender
Email: luisa.fassbender@typo3.org

As in the year before, the Marketing Team has gone through some structural changes in 2021 with a few people leaving and joining the team. The departure of both our TYPO3 GmbH team members – Marco and Volker – resulted in some organizational and responsibility / decision making / authority issues. Those issues however have been resolved in the beginning of 2022 with the Marketing Team now being able to go through with community and product related marketing decisions. With now five dedicated regular team members, work and decision making has been really efficient and goal orientated.

Release Communication for v11 LTS

The Marketing Team has created all public release materials for TYPO3 version 11.4 LTS in close collaboration with the Core Team. To improve the existing material base from former releases, we have created a variety of additional material types. In detail, the materials included:

- release material page as well as all corresponding sub pages on typo3.org
- social media banners
- highlight presentation
- press release
- „Get ready for v11“ newsletter
- „Why you should upgrade?“ PDF for editors
- „Why you should upgrade?“ PDF for DevOps
- corresponding social media messages for LinkedIn, Xing, Twitter & Co.

typo3.org relaunch

In collaboration with the TYPO3 Core Team, the T3O-Team and OSP, we have kickstarted the project „typo3.org relaunch“ and thereby started the execution of the letter of intent.

Marketing goals & guidelines

In order to streamline all marketing and communication efforts from the GmbH and Association side in 2022 and the beginning of 2023, the Marketing Team has created an overarching marketing goals & guidelines document in close collaboration with OSP, the TYPO3 Board and TYPO3 GmbH.

Specifically we are going to focus on:

- Increase product adoption via brand awareness in new markets
- Retain & increase community memberships
- Community Services Revenue (e.g. ELTS, PSL, SLAs)
- Increase TYPO3 retention & upgrades
- Increase TYPO3 community participation (event attendance, sponsorships etc.)
Security Team

https://typo3.org/community/teams/security
Contact: Oliver Hader
Email: oliver@typo3.org

Budget
The total budget had to be reduced by 10,000.00 € to 65,000.00 € as requested by the TYPO3 Association¹. In 2021 a total of 39,403.60 € were spent and reimbursed, ~60.6% of the total budget.

Activities
Due to a general lack of man-power, activities had to be prioritized to the most important Security Incident Handling aspects. The security team in total has six members - including external members of other teams (e.g. doing security reviews & tests) this number could have been raised to 13 in total. However, taking responsibility and doing the mandatory work is on the shoulders of just a few people.

Penetration Testing
Richie Lee, a software engineering student from Malaysia and certified security expert (OSWE & OSCP) focussed on penetrations testing the TYPO3 CMS backend and some popular extensions to identify new vulnerabilities. Richie was working for five months in Q1 and Q2/2021.

Security Incident Handling
The TYPO3 Security Team - as Product Security Incident Response Team (PSIRT) - has coordinated reported vulnerabilities with corresponding maintainers and reporters/researchers. Following figures reflect released and published advisories during the underlying reporting period.

<table>
<thead>
<tr>
<th>period</th>
<th>total</th>
<th>low</th>
<th>medium</th>
<th>high</th>
<th>critical</th>
</tr>
</thead>
<tbody>
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<td>Q1 2021</td>
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<tr>
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<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Q3 2021</td>
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<td>5</td>
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<td>0</td>
</tr>
<tr>
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<tr>
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<td>1</td>
<td>10</td>
<td>4</td>
<td>0</td>
</tr>
</tbody>
</table>

Incident Handling for TYPO3 CMS core

## Incident Handling for TYPO3 extensions

### TYPO3 Extensions (3rd party)

<table>
<thead>
<tr>
<th>period</th>
<th>total</th>
<th>low</th>
<th>medium</th>
<th>high</th>
<th>critical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1 2021</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Q2 2021</td>
<td>4</td>
<td>0</td>
<td>4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Q3 2021</td>
<td>7</td>
<td>1</td>
<td>4</td>
<td>2</td>
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<tr>
<td>Q4 2021</td>
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<tr>
<td>total</td>
<td>18</td>
<td>1</td>
<td>14</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

### New Package typo3/html-sanitizer published to PHP Community

To address generic cross-site scripting vulnerabilities of CVE-2021-32768\(^2\) - flaws that had been reported the first time in 2016, but not handled for five years - a new universal HTML sanitizer\(^3\) component has been implemented. This Composer-based package is standalone, agnostic to any TYPO3-specifics and thus usable by other PHP web projects as well.

In order to provide secure and strict defaults for TYPO3-base frontend content rendering, mentioned HTML sanitizer has been enforced in August 202, which lead to unexpected negative side-effects among several TYPO3-users - however there also were a lot of users that did not have any problems. As a result, our focus was to analyze problematic cases, provide more configuration examples and guidance on how Fluid templating is supposed to be used in a secure way\(^4\).

### TYPO3 v11 security enhancements

In order to allow Content-Security-Policy handling in the TYPO3 backend user interface, lots of inline JavaScript code has been refactored and adjusted\(^5\) to be invoked statically only. This would effectively avoid future Cross-Site-Scripting vulnerabilities in that part of the system.

However CKEditor v4 - used as rich-text editor in TYPO3 - unfortunately still uses inline JavaScript and evaluations. Activating CSP per default in the TYPO3 backend user interface would block CKEditor from working.

TYPO3 core mergers took the challenge to integrate Multi-Factor-Authentication and Rate Limiting into the feature set of TYPO3 v11\(^6\) in a fruitful collaboration with members of the security team.

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5 [https://review.typo3.org/q/topic:inline-javascript](https://review.typo3.org/q/topic:inline-javascript)
6 [https://typo3.org/article/typo3-v11-lts-warp-speed](https://typo3.org/article/typo3-v11-lts-warp-speed)
Static Application Security Testing (SAST)

RIPS Technologies\(^7\) got acquired by SonarSource in May 2020 and are not offering new RIPS-contracts anymore. SonarSource is going to discontinue the service - which means there won’t be any new updates for the scanner logic - however the TYPO3 Security Team can still continue to use the scanner on our own infrastructure\(^8\).

SonarSource does not offer the flexibility to provide custom scanner configuration, which is required for framework aspects like dependency injection or other extensible functionality that is evaluated during runtime.

To overcome this gap, our own custom command-line application has been kick-started and extended to discover potential vulnerabilities in common hook invocations, as well as identifying 2nd level SQL injections. Some enhancements have been contributed back to the upstream OSS project \textit{vimeo/psalm}\(^9\). It is still an ongoing process for scanning all extensions in the TYPO3 Extension Repository and finding a way to present potential results to extension maintainers - without having much manual involvement like email communication.

The basic ideas behind SAST for TYPO3, the current state and required next steps have been presented to online participants of \textit{TYPO3camp Rhein-Ruhr} in November 2021\(^10\).

Besides that, there was a preliminary meeting with Snyk\(^11\), discussing potential topics and areas of collaboration concerning web-application security (PHP, JavaScript/npm and license topics of OSS packages). This cooperation has been initiated by the former CPO of TYPO3 - since he left, it’s open who’s going to pick up this topic from the non-technical point of view.

Bug Bounty Program

In 2021 a total of 21 rewards were granted and paid out to reporters. We receive lots of external reports for (simple) infrastructure topics (my.typo3.org, git.typo3.org, …), but only a few reports for the main product TYPO3 CMS.

<table>
<thead>
<tr>
<th>period</th>
<th>total</th>
<th>TYPO3 CMS</th>
<th>extensions</th>
<th>infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1 2021</td>
<td>7</td>
<td>3</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>Q2 2021</td>
<td>5</td>
<td>2</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Q3 2021</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Q4 2021</td>
<td>7</td>
<td>1</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>total</td>
<td>21</td>
<td>6</td>
<td>3</td>
<td>12</td>
</tr>
</tbody>
</table>

Overview of granted bug bounty rewards

\(^7\) \url{https://www.ripstech.com/}
\(^8\) \url{https://ui.rips.typo3.org/}
\(^9\) \url{https://github.com/vimeo/psalm/commits?author=ohader}
\(^10\) \url{https://twitter.com/ohader/status/1457035035786219531} (slides in German only)
\(^11\) \url{https://snyk.io/}
Budget report 2021

<table>
<thead>
<tr>
<th>#4009: Security Team</th>
<th>granted 65,000.00 €</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incident Handling (PSIRT)</td>
<td>- 17,697.35 €</td>
</tr>
<tr>
<td>Bug Bounty &amp; Appreciation</td>
<td>- 3,860.00 €</td>
</tr>
<tr>
<td>Pentest TYPO3 CMS</td>
<td>- 11,535.00 €</td>
</tr>
<tr>
<td>Prevention Infrastructure</td>
<td>- 6,311.25 €</td>
</tr>
<tr>
<td>in total, 60.6% have been used</td>
<td>- 39,403.60 €</td>
</tr>
<tr>
<td>Total amount spent for security-related topics in 2021</td>
<td>- 39,403.60 €</td>
</tr>
</tbody>
</table>

Outlook

The general focus of the TYPO3 Security Team is “prevention & detection” - which translates into “avoid security vulnerabilities before they are released to the public”.

Thus, the team is aiming to continue a proper SAST-integration and basic security scans for TYPO3-related extensions (being publically available & registered in the TYPO3 Extension Repository) and support with content-security-policy (CSP) preparation and integration for TYPO3 v12 LTS - in general, reducing the number of potential security flaws also reduces the coordination efforts on the side of the security team - and of course, it supports the community by having a more stable and secure TYPO3 setup running in production.
In 2021, we continued with the migration of our services into a container-based infrastructure. Meanwhile, almost all services have been migrated successfully, and we're pleased with the new setup. We're still waiting for when we can finally disable the legacy mailing lists, so we can fully finish this long-running migration project.

Alongside these migration projects, we've been busy with our daily business. This does consist mainly of taking care of all the incoming software updates and user inquiries which do reach us through Slack or email. We speak to each other in a biweekly video call, where we coordinate all those running tasks.

The whole year, it was still not possible to meet each other in person, again. Starting in January, we participated in the monthly remote days, which have been launched by the TYPO3.org website team. This did not work out very well for us because most of our team members were tied up with other business related tasks through the week, or with private duties, when the day was on a weekend. Therefore, we switched to quarterly remote sprints again.

For 2022, we hope to see each other in person again. Our main goal will be to replace the last pending services into our new container-based setup. After that, we're eager to switch some of those shiny containers into a Kubernetes cluster to streamline our infrastructure and deployment processes even more.

We're still looking for a few team members. If you're interested in running a zoo of different software in a coordinated manner, get in touch with our team lead Andri at andri.steiner@typo3.org.
typo3.org Team

https://typo3.org/community/teams/typo3org
Contact: Thomas Löffler
Email: thomas.oeffler@typo3.org

As in 2020, last year we had a focus on t3o Remote Days - two times a month we held remote meetings and worked on the typo3.org pages. No physical meetings were possible and consequently, we suffered a loss in contributions.

General

We prepared our budget for 2021 for working completely remote, and envisioned some ambitious projects for our websites and infrastructure. Some of them we managed to complete but most of them could not even be started due to the lack of contributors.

Project typo3.org

We had some bigger tasks on our most important page.

- **Content restructure**: With the relocation of some of the TYPO3 product content to the typo3.com site, we had to rearrange some pages and set canonical urls to the new places of that content. In addition, the whole certification part moved completely to typo3.com.

- **Finding extensions**: We managed to surface TYPO3 extensions from the TYPO3 Extension Repository on the typo3.org search.

- **Suggested search**: When searching, the large orange area in the page header is now populated with results grouped by content type. The results change and adapt with every character you type.

Project extensions.typo3.org

- **Extension documentation voting**: In time with the TYPO3 v11 release, the Documentation Team started a small contest to find the best extension documentation. We provided the possibility to nominate extensions and give voting points to the nominated extensions.

- **TYPO3 version filter**: Do you need to know which extension version works for your TYPO3 version? You can filter now in the version history easily.

- **Crowdin support**: Extensions with Crowdin support now have an overview showing which languages are translated and how far the process is.

Project voting.typo3.org

- The voting extension was refactored and is now supporting TYPO3 v10.

Project get.typo3.org

- **Anchor links for headings**: All headings now have anchors with links on mouse-over to provide links directly jumping to the desired section.
• **Full refactoring for PHP 8.1**: The application was updated to the latest Symfony / Doctrine packages and a complete refactoring was done with Rector and PHPStan on max level. This made the update from 7.4 to PHP 8.1 possible at last, which is a big performance improvement.

• **Introduction of TYPO3 11**: The new TYPO3 11 LTS was added to the homepage with a list of new features.

• **New API endpoints**: Previously the API endpoint was at /v1/api and is now changed to /api/v1 (including aliasing to the old endpoints for compatibility). The endpoints are now streamlined with the one of the TER API. Also the Core and Darth were changed to reflect the new endpoint for ELTS versions down to 9.5.

• **Update to Satis 3 for Composer 2 support**: With the release of Composer 2 many things have changed and the data structure was highly optimized. Therefore an update to the latest Satis was made to be fully compatible with Composer 1 and 2.

• **Preparation for the Sitepackage Builder**: The preparation of the new Sitepackage Builder was also continued and is now almost ready for the deployment.

• **Many other small changes and fixes**: Details can be found in the repository directly, there were about 40 other small changes and fixes during the last year.

**Outlook**

For 2022 we plan to have mainly t3o Remote Days. As in 2021 we would like to give money for different smaller projects within the typo3.org universe.

**General**

• TYPO3 v11 upgrades

• SSO integration

**Project typo3.org**

• Restructure typo3.org homepage

• Allow frontend editing for events

**Project extensions.typo3.org**

• Better integration for Composer

• Deprecation and shutdown of SOAP interface

**Project get.typo3.org**

• **Sitepackage Builder**: The long standing preparation for the Sitepackage Builder, based on the work of Benjamin Kott and known from [https://www.sitepackagebuilder.com/](https://www.sitepackagebuilder.com/), is almost finished and should get published in the first quarter of this year.

• **Project Builder**: The Project Builder is an enhanced version of the Sitepackage Builder and the well known Composer Helper, and helps with the easy creation of new projects including a Site Package and a common project structure with a few clicks. This especially helps newcomers and less experienced users for best practice startup of their projects.
- **User management via** [login.typo3.com](http://login.typo3.com): Currently the API has a separate user and access handling. It is planned to use the central user repository at [login.typo3.com](http://login.typo3.com) in the near future.
- **Management Backend:** At the moment the database is managed via API. There is still some refactoring of the entities on-going to finally use one of the excellent UI packages for a simple access to management features.
- **Move to** [git.typo3.org](http://git.typo3.org): The repository should finally be moved from GitHub to the self hosted GitLab instance at [git.typo3.org](http://git.typo3.org). The first steps are done, but CI and CD still have to be rewritten properly to achieve this goal.
- **Minor improvements:** There are also some minor improvements and fixes planned, especially the cache handling which causes troubles from time to time when creating new releases. More information is available in the repository issues at [https://github.com/TYPO3/get.typo3.org/issues](https://github.com/TYPO3/get.typo3.org/issues).
UX Team

https://typo3.org/community/teams/user-experience-ux
Contact: Rachel Foucard
Email: rachel.foucard@typo3.org

Even if it’s members worked during all 2021, the UX Initiative was officially born the 15th of September 2021 and became an TYPO3 Team the 6th of April 2022

Pilot system
To show concrete UX UI improvement and changes we propose, we decided to work with a pilot system: it’s a patch applying a set of UX modifications easy to test in a demo platform. This patch is available on Packagist here: https://packagist.org/packages/typo3-ux/page-module-pilot and regularly maintained to be compatible with the latest V11 release.

Demo website for testing the pilot
Dominic Brander (Snowflakes) had some feedback from UX people who wanted to test this pilot: They failed to set up the TYPO3 instance. Therefore he created a public instance for all those non-technical community members: https://ux-testing.snowflake.ch/typo3
User: ux1
Password: ux1
Snowflakes generously keep maintaining this demo website for us

User Testing
We had a look to some Saas solutions and found that this one is interesting https://www.userbrain.com/en/pricing/ because it’s possible to mix between real users that don’t even know TYPO3 and users from our community a budget application was submitted for that purpose

Workflow with the Core Team
Annett Jahnichen is now a Core merger for the Backend User Interface scope. And ensure the bridge with the Core Team. Benni Mack is a member of the UX Team as well. The teams are communicating to find the best approach to work together efficiently.