

Dear intacs e.V. members, SPICE assessors and friends of intacs®!

The new Automotive SPICE® PAM 4.0 will probably be published in 2023! Therefore, a lot of work was done in the intacs® [Working Groups](#) in the past months e.g., updating the training concept and the extensions. The Working Groups Training and Exam will keep the content in sync to ensure consistency.

In parallel new PAM extensions Cybersecurity, Agile SPICE™, Hardware SPICE and Mechanical SPICE were defined, piloted, and published to enhance the usage of Automotive SPICE®.

This information letter wants to give you an insight and progress to all these activities.

We wish you an enjoyable reading!

Christian Knüvener (christian.knuevener@intacs.info)

Thomas Kömmerling

Dr. Ganji Rajesh (ganji.rajesh@intacs.info)

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Information from Advisory Board

We hereby inform about the responsibilities in the Advisory Board:

Spokesman: Dr. Pierre Metz (pierre.metz@intacs.info)

Deputy: Bernhard Sechser (bernhard.sechser@intacs.info)

intacs e.V. online member's convention 2022

intacs e.V. held this year's general meeting online on September 2nd, 2022.

The President Peter Bölter reported on the business and membership development, the finances, and the cost development of the association. The funding policy included 10 funded projects and two funding grants in the reporting period. The two students introduced themselves personally.

As every year, the cash audit and accounting were carried out in accordance with the applicable specifications. The board reported on the development of the individual domains and gave an outlook on further planning.

Vice-President Lars Dittmann reported on the activities carried out by the Advisory Board. This currently consists of 15 people, two representatives of the certification bodies and one representative from the board. The statutory division of tasks between the board and the Advisory Board has been implemented.

In the reporting period, all Working Group leaders were appointed to the Advisory Board to facilitate interdisciplinary cooperation and enable intensive communication.

In 2022, three Working Groups were newly founded: "Organization SPICE"; "SPICE for IT Services" and "Functional Safety".

The technical result of the "Data Management" Working Group was presented in detail by the Working Group leader Thomas Sievers, the status of the other Working Groups one after the other as a short summary.

In particular, the activities of the "Internationalization" Working Group are to be expanded in the direction of Asia (China, Japan, Korea, India). The ISO 33XXX certification scheme is to be strengthened by own offerings of intacs®.

Dr. Jan Morenzin reported on the work of the VDA-QMC certification body. There are currently 5212 Automotive SPICE® assessors certified. The proportion of lead assessors is 448 (8.6%). Most assessors are located in Germany, China, Japan, South Korea, India and the USA.

At the ECQA, 34 SPICE assessors are currently certified, 27 of them are active. 7 assessors are certified according to the ISO 20000 scheme. This Process Assessment Model received an update in 2022 and is now called "SPICE for IT Service Management". Further certifications are also expected here.

The members of the board of directors and the cash auditors were discharged for the reporting period. Lars Dittmann's appointment as Managing Director was confirmed.

Contact: Peter Bölter (peter.boelter@intacs.info)

Outlook to Automotive SPICE® 4.0

Changed Concepts

- Separate PAM for 'Potential Analysis'
- Notes with implicit requirements or checklist-like enumerations will be revised or rephrased
- Planning-related aspects shifted completely to Level 2
- Restructuring of Level 3 GP (level semantics remain unchanged)
- Work product characteristic replaced with the ISO 33060 concept of 'Information Item Characteristic' (IIC)
- Extra tables for BP and IIC mappings to Process Outcomes
- Traceability BP re-integrated into the consistency BP
- New basic scope

Timeline:

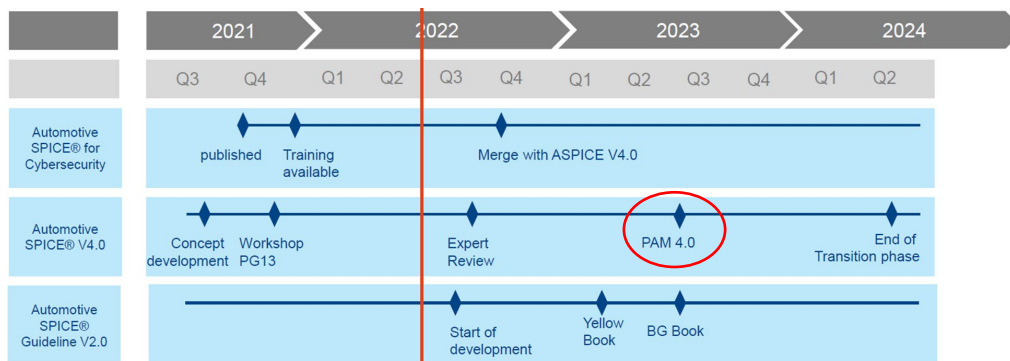


Figure 1: Planned timeline for Automotive SPICE® PAM 4.0

Planned process changes:

- Removed (11 processes): ACQ.3, ACQ.11 to 15, SUP.2, SUP.4, SUP.7, REU.2, SPL.1
- Included (6 processes): MAN.7, ACQ.2, SEC.1 to 4 → Automotive SPICE® for Cybersecurity PAM
- New (15 processes):
 - Hardware processes: HWE.1 to 4
 - Mechanic processes: MEE.1 to x
 - Machine learning processes: MLE.1 to 4,
 - SUP.11 – Data Management Machine Learning
 - VAL.1 – Validation
- Revised / updated (4 processes + x):
 - Major changes: SPL.2, MAN.5, ACQ.4, REU.2
 - Small adaptations: all others if needed

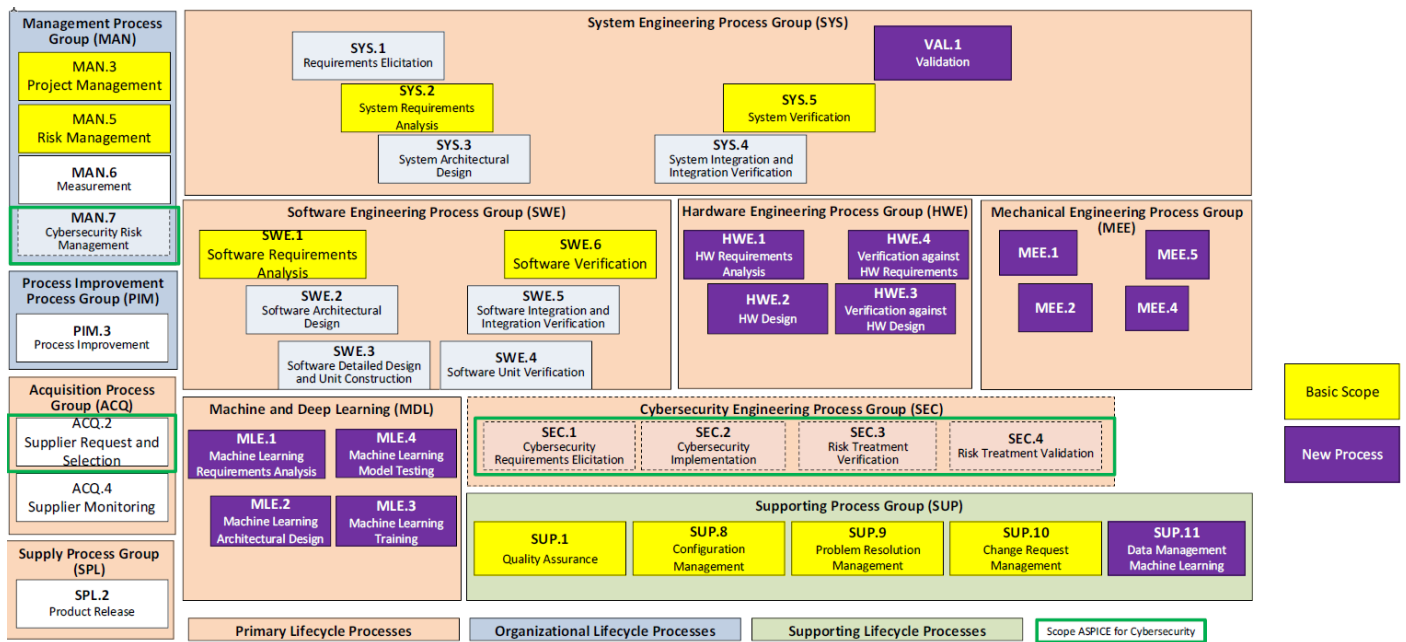


Figure 2: Automotive SPICE® PAM 4.0 (draft)

Planned changes on process attributes:

- PAM 4.0 will not follow the updated measurement framework ISO 33020:2019
- PAM 4.0 will contain some modifications based on ISO 33020:2015

PA 2.1	Performance Management Attribute	PA 2.2	Documented Information Management Attribute
GP 2.1.1	Identify the objectives and define a strategy for the performance of the process.	GP 2.2.1	Define the requirements for the documented information.
GP 2.1.2	Plan the performance of the process to fulfill the identified objectives.	GP 2.2.2	Define the requirements for documentation and control of the documented information.
GP 2.1.3	Monitor and adjust the performance of the process	GP 2.2.3	Identify and control the documented information.
GP 2.1.4	Define responsibilities, authorities and infrastructure needs.	GP 2.2.4	Review and adjust documented information to meet the defined requirements.
GP 2.1.5	Identify and make available personnel and infrastructure resources.		
GP 2.1.6	Manage the interfaces between involved parties.		

Figure 3: Planned changes on process attributes Level 2 (draft)

PA 3.1	Process Definition Attribute	PA 3.2	Process Deployment Attribute
GP 3.1.1	Establish and maintain the standard process.	GP 3.2.1	Deploy a defined process.
GP 3.1.2	Determine the required competencies.	GP 3.2.2	Ensure required competencies for the defined roles.
GP 3.1.3	Determine the required infrastructure.	GP 3.2.3	Ensure required infrastructure.
GP 3.1.4	Determine suitable methods to monitor the standard/defined process.	GP 3.2.4	Monitor the performance of the (defined/deployed) process.

Figure 4: Planned changes on process attributes Level 3 (draft)

New mapping tables and implementation of ISO 33060 concept

- “work products” → output information item
- Better overview of BP and OII (output information item) to outcome mapping
- Perfect basis for pocket guides
- Supports assessors
- Supports tool development

MAN.3 Project Management	Outcome 1	Outcome 2	Outcome 3	Outcome 4	Outcome 5	Outcome 6	Outcome 7
Output Information item							
08-53 Scope of work	X						
14-xx Work package			X	X	X		
13-04 Communication record		X	X				
13-16 Change request							X
13-19 Review record		X					X
14-02 Corrective action register						X	X
14-06 Schedule			X		X		X
14-50 Stakeholder groups list				X			
15-06 Project status report				X		X	
Base Practices							
BP1: Define the scope of work	X						
BP2: Define project life cycle	X	X					
BP3: Evaluate feasibility of the project		X					
BP4: Define and monitor work breakdown structure			X	X	X		X
BP5: Define and monitor project estimates and resources		X	X				X
BP6: ensure required skills, knowledge, and experience			X				X
BP7: Identify and monitor project interfaces and agreed commitments			X		X		X
BP8: Define and monitor project schedule						X	X
BP9: Ensure consistency			X	X	X		X
BP10: Review and report progress of the project						X	X

Figure 5: New mapping tables – example for MAN.3 (draft)

Usage of Automotive SPICE® concept for potential analysis

- Similar approaches in VDA 6.3 “Potential Analysis” but with a focus on Automotive SPICE® Level 1 BPs
- Separate PAM with own rating scale and measurement framework

Current concept:

- Risk evaluation instead of process compliance
- Reduce risk of organizations with low process capability before nomination
- A Potential Analysis is not replacing an Automotive SPICE® assessment
- Potential Analysis rating results not based on NPLF but rather red/yellow/green
- Several processes are bundled in groups. Processes designed for flexible use
- Potential analysis is to be performed by certified Automotive SPICE® assessors
- Scope consists of BASIC set with at least one plugin (SW, HWE, ...). Add FLEX processes as needed.
- Style and content in line with Automotive SPICE® 4.0
- Engineering focus in configuration management and problem resolution
- Duration BASIC ~2 days

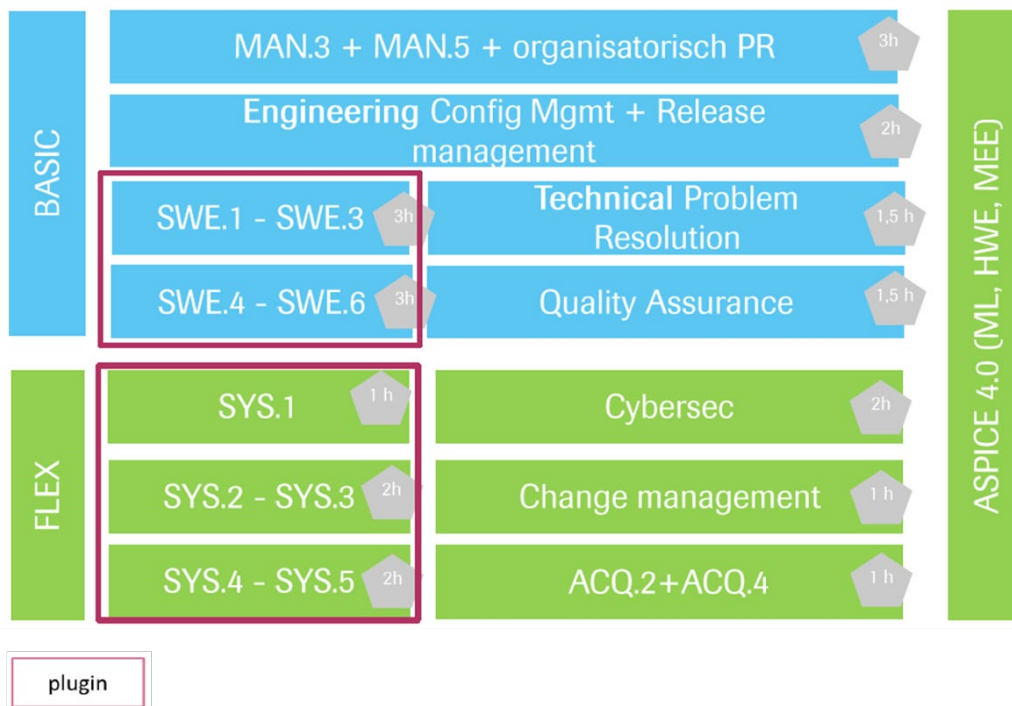


Figure 6: Potential analysis based on Automotive SPICE® (draft)

Contact: Albrecht Wlokka

Status of Working Group “intacs® Trainings”

Main focus for the Working Group “intacs® Trainings” is currently to develop the new training architecture including the new training materials and the review and approval of some extension models. Besides that, the Working Group has refined criteria for assessor certification and the EE concept.

The current achievements are:

New training architecture developed, agreed upon and published:

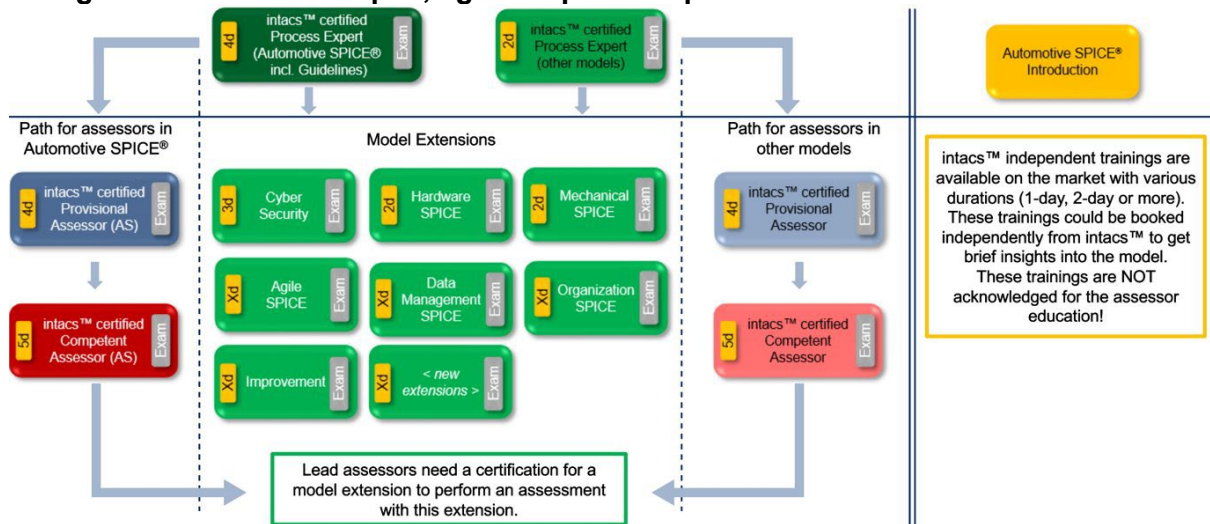


Figure 7: New training architecture for PAM 4.0



Figure 8: Approval of training extensions

Adjusted criteria for Experience Evidences (EE-AL, EE-AT):

- Certification requirements regarding assessment hours:
 - The number of 250 assessment hours (initial certification) or 150 assessment hours (recertification) will remain
 - Number and duration of assessments are not relevant
 - Across all applied hours for the certification at least three different process groups must be covered
- Requirements for assessment, which are eligible for getting EE-AT or EE-AL:
 - An assessment **MUST** be conducted by a lead assessor with at least an intacs® certified Competent Assessor grade
 - The assessment must be conducted following the proceeding described in the intacs® assessor trainings:
 - Rating with NPLF (of NP-P+L-L+F) rating scale only
 - Process Attributes, Base Practices and Generic Practices must be rated
 - Assessment plan and schedule must be compliant to the requirements of ISO/IEC 33002 and VDA Automotive SPICE® Guidelines, respectively
 - Documentation of results must be compliant with the “assessment record” defined in ISO/ICE 33002 (indicator rating including traceability to evidences, process profiles, capability profile)
- NOT accepted are for example:
 - Gap Analysis (or whatever it is called) with traffic light or smiley/winey representation of results
 - Potential Analysis (or whatever it is called) without rating of single processes and all their indicators
 - If it becomes known, that a lead assessor signs an assessment log for not accepted performances, intacs® has the right to dismiss the assessor licenses of that lead assessor temporarily or permanently.

Adjusted criteria for assessor certification and observations

The adjusted criteria are marked with a red frame below. All these criteria will soon be included into updated versions of the procedures and published on the intacs® website accordingly.

Criteria	Instructor Candidates			
	Provisional Instructor		Competent Instructor	
	old	new	old	new
Experience as instructor in other topics than the intacs courses	Having demonstrated didactic skills by providing evidence of at least three training deliveries in any domain	Having demonstrated didactic skills by providing evidence of at least three training deliveries in any domain	No additional requirements	No additional requirements
Assessment hours	Assessment hours collected <u>since becoming Principal Assessor</u> : * 2 EE-AL * 1 EE-AL or EE-AT	Assessment hours collected <u>since becoming Principal Assessor</u> : * 2 EE-AL * 1 EE-AL or EE-AT	Assessment hours collected <u>since becoming PA Instructor</u> : * 2 EE-AL * 1 EE-AL or EE-AT	Assessment hours collected <u>since becoming PA Instructor</u> : * 2 EE-AL * 1 EE-AL or EE-AT
Performed intacs™ trainings	No additional requirements	No additional requirements	No additional requirements	Provisional trainings performed (excluding the observed training): * 6 EE-CT (PA)

Figure 9: New criteria for instructor candidates

Instructor Candidates	Instructor Observations			
	Provisional Instructor Observer		Competent Instructor Observer	
	old	new	old	new
Experience as instructor in other topics than the intacs courses	No additional requirements	No additional requirements	No additional requirements	No additional requirements
Assessment hours	No additional requirements	No additional requirements	No additional requirements	No additional requirements
Performed intacs™ trainings	No additional requirements	Provisional trainings performed (excluding the observed training): * 5 EE-CT (PA)	No additional requirements	Competent trainings performed (excluding the observed training): * 2 EE-CT (CA)

Figure 10: New criteria for instructor observations

Criteria	Competent Assessor Candidates & Their Observations			
	Competent Assessor Candidate to do an observed assessment		Competent Assessor Observer	
	old	new	old	new
Trainings visited	requirements	Successfully passed trainings including exams: * ASG * CA	No additional requirements	No additional requirements
Assessor certifications	requirements	intacs™ certified Provisional Assessor	intacs™ certified Competent or Principal Assessor	intacs™ certified Competent or Principal Assessor
Assessment hours	requirements	Assessment hours collected before observation: * 3 EE-AT	No additional requirements	Requirements for renewal of certification as Competent or Principal Assessor: * 2 EE-AL * 1 EE-AL or EE-AT * 1 EE-EP or EE-AC * 2 EE-AC (for Principal Assessor or 2 EE-xx (for Competent Assessor)

Figure 11: New criteria for competent assessor candidates and their observations

We like to thank the core Working Group members for the great and intensive contribution:

- Klaus Hörmann
- Christian Knüvener
- Bernhard Sechser

And my thanks go as well to the members of the sub teams who supported us in developing the materials for the core trainings!

Update for pilot phase with higher number of participants in China trainings

After the pilot phase ended on August 31st, we've analyzed the use of the defined extension of participants. We received only very little feedback, for that reason, we will extend the pilot phase with a slight adjustment until December 31st, 2022. We've changed the following aspects:

- Clarification of extended time: it is a MUST, to extend the training by one day, not by extending the daily hours. The reason is, that longer days will make it impossible for the participants and the trainer to be attentive and keep the concentration. This rule is not negotiable.
- The pilot area is extended by two additional countries: India and Korea. This is due to the current situation of available training providers in these countries and should support the high request for trainings.

Please see the complete rules below (adjusted aspects marked in **red**):

Valid for the following intacs® trainings only:

- Intacs® certified Provisional Assessor
- Intacs® Introduction to VDA Automotive SPICE® Guidelines

Condition to extend the number of participants:

- The training MUST be extended by **one additional day with 8 hours! Extending just the daily training hours is NOT accepted.**
- You need to prove the extension by providing a training schedule with the application for the exam to the VDA QMC
- **You must provide the following feedback information to intacs® (volker.lehmann@intacs.info):**
 - **how many trainings have you performed with a higher number of participants**
 - **number of participants per training**
 - **concrete training schedule with the additional day visible**
 - **feedback from the participants**
 - **feedback from the trainer**

Max. number of participants:

- Normal: 12 participants
- Extended: 20 participants

Pilot scope:

- Only for trainings executed in **China, Korea, and India**
- Limited until December 31st, 2022

Please note:

- If the trainings are not conducted in the defined regions (**China, India, Korea**) or if the training time does not include an **additional training day with 8 hours**, the extended number of participants will NOT be accepted!
- Extending the number of participants is NOT allowed for the intacs® Certified Competent Assessor training!
- There are NO exceptions for other trainings or regions!

We will review the feedback we've received in early December and decide about the further proceeding. If we do not get any feedback, the pilot phase automatically ends.

Recommendation for planning new trainings for the training provider

You all might know the new training architecture, which was announced in the last intacs® newsletter and also presented on the VDA Automotive SYS conference in June 2022. As there are some uncertainties regarding the exact start date of this architecture, we'd like to give a few recommendations on how to deal with it in this transition phase.

The planned start for the new architecture is aligned with the release of Automotive SPICE® 4.0 by the VDA, which we expect in early third quarter 2023.

As all the training providers need to plan the trainings in advance, we recommend listing the new trainings in your training catalogue with a brief description. Information about the trainings you'll find in the last newsletter.

As the new "Process Expert" and the "Provisional Assessor" are both planned with four days, which is similar to the old structure of the "Provisional Assessor" with five days, it might also be a good idea to plan the dates already and state, that there might be changes in the training plan. Due to the similar duration, it should be possible to change a newly planned four-day "Process Expert" and "Provisional Assessor" trainings to the old five-day "Provisional Assessor" training without too much complication.

We know that there is the need for a reliable planning and publication, and intacs® is working on a transition concept, but as an interim solution we recommend informing the possible participants about the current planning and keep the switch of trainings in mind.

Contact: Volker Lehmann (volker.lehmann@intacs.info)

Status of Working Group "Exams"

Our Working Group basically deals with the following topics:

- Support certification bodies with up-to-date exams in different languages (currently supported: German, English, Japanese, Chinese, Korean)
- Review and approval of all exam results
- Troubleshooting if something went wrong during exams
- Support of the intacs® Working Group "Training Material" with up-to-date sample exams
- Support other intacs® Working Groups developing model extensions or PAMs (Mechanical, Hardware, Cybersecurity, SPICE for IT Services) in developing their exam questions

What kept us busy in the last period:

- Develop a common architecture and categorization of exam questions for the future three levels of assessor training (Expert/Provisional/Competent)
- Unifying online and paper-based exams (currently for Provisional course only)
- Reduce the risk of cheating on online exams by massively increasing the number of exam questions

Current status of the exams:

- Exam architecture: 95% finished (some rework expected as the Working Group Trainings delivers their results)
- Status of the exam repository
 - About 1250 questions, will probably grow to > 1400 as the training materials become more complete
 - About 50% of these are ready for use (this is because so far, the focus was on the Provisional exams)
 - Rollout for the Provisional exam is about to start in the next weeks
- Unifying online and paper-based exams
 - The exam repository allows to generate both paper versions (MS Excel format) and online versions (Socrative format). Templates are in place for both formats.
 - The rollout is about to start for the Provisional course.
 - New trial exams have been developed for the Provisional course that support both formats.

The following diagrams show the cooperation between intacs® and the VDA QMC with respect to the new exam repository, and how exams are generated and what the responsibilities are:

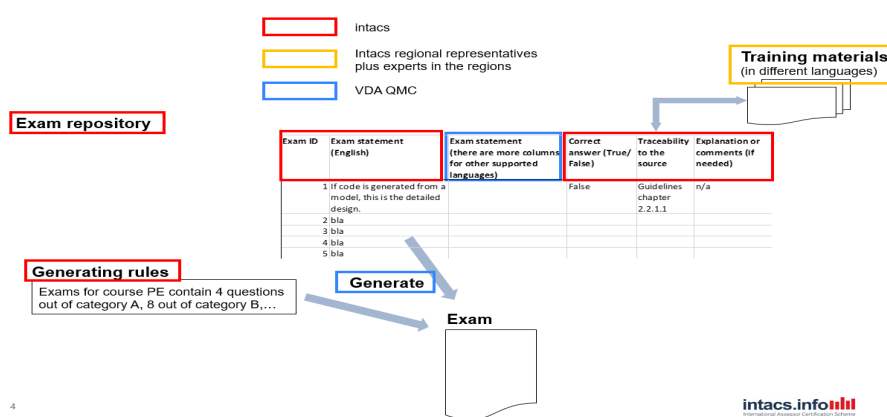


Figure 12: Exam repository

What will keep us busy in the next months:

- Exam questions have two sources:
 - Training materials (in a traceable manner: we want the students to understand what they need to know for the exam)
 - The model (this is supported by trial exams)
- Because of this we have two dependencies:
 - The changes that will come with Automotive SPICE® 4.0
 - The resulting changes of the training materials
- This will require a close cooperation between the involves parties: the VDA QMC PG 13, the intacs® Working Groups Training and Exams
- We expect this transformation to start in late 2022 (when the first draft of Automotive SPICE® 4.0 is expected) and to continue well into 2023 when the piloting of new trainings and exams will take place.

Contact: Klaus Hoermann (klaus.hoermann@intacs.info)

Status of Working Group “Internationalization & Diversification”

The information exchange and networking all over the world with the support of the intacs® Regional Representatives was successfully continued by using all the possibilities for onsite and online events, being prepared for upcoming shutdowns or other restrictions.

8 online meetings with all Regional Representatives to exchange the latest news from intacs® and VDA QMC have been held. The results are documented by global meeting minutes, which were used by the representatives for distributing local news to the communities. The Regional Representatives were present at various events all over the world with presentations and organizational support.

Some highlights from the past year:

Nippon SPICE Network

- 4th NSPICE conference on November 24th, 2021 (hybrid)
- 3 online and 1 onsite Study Meetings in the previous 12 months
- 3 free seminars “intacs® Regional Representatives for Japan” to inform about the latest intacs® information
- Translation of Automotive SPICE® for Cybersecurity PAM into Japanese

Korean SPICE Network

- 6th Korean SPICE Network Conference on November 17th, 2021 (hybrid)
- 2 Korean SPICE Network workshops
- Korean translation of Provisional Assessor Training
- Korean & Japanese translation of intacs® procedure documents

Chinese SPICE Network

- 5th CSN conference on December 3rd, 2021 (hybrid)
- 3 CSN Workshops
- Translation of CS SPICE v1.0 and VDA CS Guideline into Chinese



Figure 13: Automotive SPICE® Assessor Network China

Intacs® community in Singapore

- Gate4SPICE event in Singapore on August 19th, 2022

Intacs® community in North (and South) America

- Several Gate4SPICE meetings in USA
- Posts and supporting discussions in NA LinkedIn group

Intacs® community in Czech Republic

- Cooperation with Czech Society for Quality
- Articles about Automotive SPICE® and intacs to Czech Quality Perspectives magazine
- LinkedIn group for all Automotive® SPICE professionals in Czechia, regularly published news in national language

Intacs® community in Italy

- 19th Automotive Spin Italia Workshop on November 18th, 2021 (online)

Intacs® community in Romania

2 Gate4SPICE onsite events in Timisoara, Romania:

- „Risks do not take Vacations“(organizer: Vitesco Technologies Romania)
- “Automotive SPICE® Cybersecurity” (organizer: Continental Automotive Romania)

11th VDA Automotive SYS Conference in Potsdam, Germany (June 28th-30th, 2022, Potsdam)

Bernhard Sechser represented intacs® and talked about “intacs® SPICE Assessors today and tomorrow – Skills and training requirements for new topics such as Cybersecurity”

Intacs® contributed with booth, session chairs and speakers from the Regional Representatives community.



Figure 14: intacs @ VDA Automotive SYS Conference 2022

29th EuroSPI Conference in Salzburg, Austria (August 31st – September 2nd, 2022)

Bernhard Sechser represented intacs® and held a keynote about “The new intacs® Training Strategy - The new modular structure and the concept of process experts”.

**EuroSPI 2022 Key Note 3: The new iNTACS
Training Strategy - The new modular structure
and the concept of process experts**



Figure 15: intacs® @ 29th EuroSPI Conference

The assessor community support will be continued and extended in the next years, with more events and conferences. Further countries will be supported with Regional Representatives.

If you need any help, you can find the current list of Regional Representatives on the intacs® web page: <https://intacs.info/index.php/component/comprofiler/userslist/12-regional-representatives>

Contact: Bernhard Sechser (bernhard.sechser@intacs.info)

Status of Working Group “Assessor Support”

The Working Group “Assessor Support” is mainly responsible for organization and support of the well-established Gate4SPICE events. Thus, it is probably those Wworking Group with highest visibility inside the SPICE assessor’s community.

After a short break-down due to pandemic situation in 2020 we now have a higher Gate4SPICE frequency than before: Within last 12 months more than 30 events, among them about 20 on-site, were offered to the assessor’s community. We are happy about this increasing interest of this format and believe that it is one of the most important things which support communication and experience exchange within assessor’s community.

To ensure that also in the future Gate4SPICE events can continue to be successful and beneficial for the assessor’s community, your support with suggestions for interesting future topics, as a speaker or as a host is highly appreciated. Mr. André Zeh would be happy to support you with organizational questions or to discuss your ideas.

Contact: André Zeh (andre.zeh@intacs.info)

Status of Working Group “Hardware PAM”

The new Hardware SPICE PAM Version will be released soon in mid of October 2022. This update contains some change requests as feedback of several train assessments and smaller bugfixes.

Currently the Working Group supports the VDA PG13 to adapt the Hardware PAM to be compliant with the new Automotive SPICE® PAM 4.0 concept.

In parallel, the creation of training material for assessor qualification is nearly completed. The goal is to establish a certification path with the certification body ECQA.

Contact: Dr. Pierre Metz (pierre.metz@intacs.info)

Status of Working Group “Cybersecurity PAM”

Following pilot training late last year, several Automotive Spice® for Cybersecurity trainings and assessments have been conducted in recent months.

During the workshop at VDA-SYS this year, it was confirmed that there is still a need to further define and explain the purpose of an Automotive SPICE® assessment for Cybersecurity. Cybersecurity is still a relatively new topic for many companies, with many companies still in the process of implementing the new cybersecurity standards such as ISO/SAE 21434, UNECE 155, ISO/PAS 5112 and others.

In addition, Automotive SPICE® for cybersecurity will be introduced and rolled out over the next few years.

Therefore, the Automotive SPICE® for cybersecurity training will try to explain the specifics of cybersecurity in relevant projects and give examples. First, the process MAN.7, which is based on the section 15: Threat Analysis and Risk Assessment (TARA) from ISO/SAE 21434.

The Automotive SPICE® training also aims to demonstrate the breadth and depth of the topic of cybersecurity and provide guidance for further immersion and understanding of the topic.

But to think that you will come out of the training as a cybersecurity expert would be a false expectation.

We are already very excited when Automotive SPICE® 4.0 becomes known and will then work on adapting and updating our training material accordingly.

We are happy that we still have active members who have a great interest in the subject and on whom we can count.

Our Working Group is still in progress and will consider all feedback and experiences we receive. Please, feel free to contact us accordingly.

Contact: Dr. Thomas Liedtke (thomas.liedtke@intacs.info)

Status of Working Group “Organization SPICE”

The goal of the Organization SPICE working group is to define a procedure for a maturity level assessment including a trustworthiness with any kind of certificate. The model shall comply with ISO330xx and ISO29169 and be a successor of the withdrawn ISO15504-7.

We have made a step closer to this goal. The new maturity level assessment model intacs® Organization SPICE PRM/PAM was released and presented at the VDA SYS conference. There was a lot of feedback on the model and more than 10 participants have applied to join the intacs® Working Group and want to actively participate, including two OEMs. The Working Group is very intercontinental, which makes meeting locally very difficult. The plan is to hold one or two on-site meetings next year.

Two-thirds of the VDA-SYS participants who gave an opinion on the topic think that a Maturity Level Assessment Model for the automotive industry would be helpful and that a certificate would be a good solution.

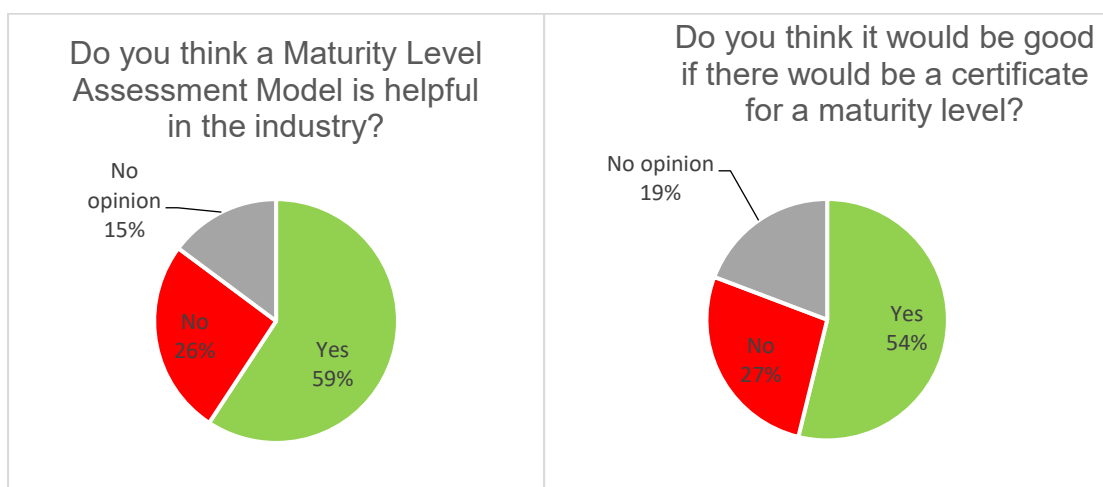


Figure 16: Feedback from VDA-SYS conference

The next step is to finalize the "Maturity Level Assessment Procedure (incl. Trustworthy)" and to introduce a "Certificate of Conformance" that organizational units receive when they have reached a level.

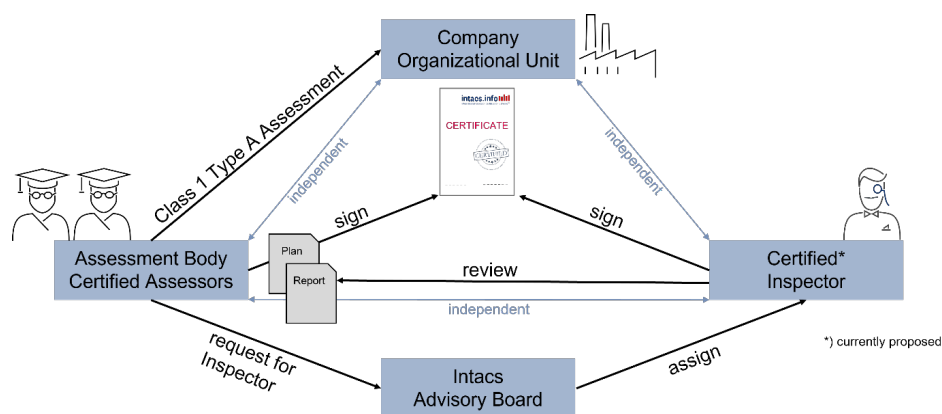


Figure 17: Assessment Process incl. Trustworthiness

Our expectation is that Maturity Level Assessments will only be successful in the market if the overall effort for assessments does not increase and the results are accepted by the customers.

Contact: Kosmas Kopmeier (kosmas.kopmeier@intacs.info)

Status of Working Group “Data Management SPICE”

The Working Group was founded in Q1 2021. First group meeting took place in spring 2021.

What is meant by the term “data management”?

Data Management is the set of all methodological, conceptual, organizational, technical measures and procedures for handling the resource data, with the aim of introducing them into business processes with their maximum potential for use.

Initial situation: Many of the current innovations in the automotive environment revolve around autonomous driving, digitization, connectivity, AI/machine learning and new mobility services.

All these innovations are based on collecting and using data. However, the handling of data often plays a subordinate, barely visible role in today's development processes, with corresponding risks.

Targets: The Working Group would like to create a good practice framework that specifically addresses these risks; hence the working title “Data Management SPICE”.

We like to provide a bridge between software applications developed in an Automotive SPICE® framework and reliable data used by those. With specific criteria and spelled out expectations related to data quality. And therefore, learning a terminology that combines SW and Data needs.

By providing practices that consider today's and future business needs and collaboration models.

Current achievements: First baseline “Data Management SPICE” process assessment model was made public during VDA SYS 2022 conference and is ready for piloting. A summarizing PDF in booklet format, can be downloaded at www.intacs.info. This first baseline contains 3 **new** process groups:

- MGD.1 – MGD.4 Managing Data with 22 BPs, 20 POs and 23 WPs
- DQA.1 – DQA.2 Data Quality with 10 BPs, 7 POs and 10 WPs
- DOP.1 – DOP.2 Data Operations with 10 BPs, 9 POs and 11 WPs

Engineering PGs out and Data Management PGs in

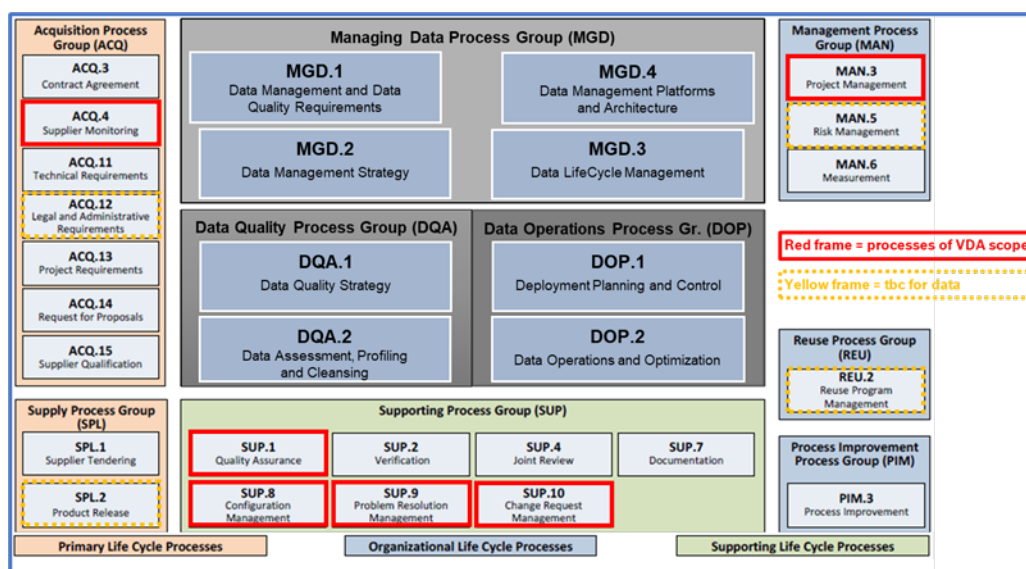


Figure 18: Data Management process landscape

Draft rating guidelines for all PGs, terminology items and work product definitions are created and available. Even when the current definitions are experience based, it is time now, to verify the model in an operative reality.

Why it brings added value? It allows to evaluate against proven best practices, to determine gaps, and to improve management of data assets across the entire organization. It defines the fundamental business processes of data management capabilities. It is intended as a “state of the art” reference for process improvement, and it defines a process assessment model (PAM) for the maturity of all types of data, data management, and for organizations processing data.

Next steps: Due retaining existing process attributes / generic practices (capability dimension) on CL2-5 and MAN/ACQ/SUP process groups in the Automotive SPICE® framework, an interpretation guidance how to use MAN/SUP in the context of data is likely needed. Three major aspects need to work on now:

- Find and conduct pilots (Valeo prepare first full assessment, VW Infotainment and other companies have asked for support)
- PAM key concepts & examples, integrate all in one PAM for review
- Creating training concept and questions

We actively look for feedback from peers in and outside the automotive industry. We are open to share our experience and to expand our method together with the industry and to collaborate on qualification criteria for assessors.

Contact: Thomas Sievers (thomas.sievers@intacs.info)

Status of Working Group “SPICE for IT-Services”

The Working Group “SPICE for IT-Services” was founded in January 2022 by initiative of:

- Klaus Hoermann (klaus.hoermann@intacs.info)
- Andreas Nehfort (andreas.nehfort@intacs.info)

Our first goal was to provide a SPICE based Process Assessment Model for the Domain “IT Service Management”.

- To update the existing Process Assessment Model “ISO-20000-PAM V3.0” (from 2014) to reflect the current state of standards → ISO 20000-1:2018 & ISO 33000-Series

Secondly, we want to promote & establish the application of this model in the strongly growing area of “connected car services”. For this purpose,

- we want to attract new Working Group members from the automotive industry
- we want to enhance the model with domain specific reference processes and performance indicators for the area of “connected car services”.

And third we want to contribute to bridge the gap between different competencies, which typically have been neatly separated in the past:

- Automotive and software engineering
- IT Service Management.

Provide an Assessment Model for the Domain “IT Service Management”

The “SPICE for IT-Services V4” revises the previous version “ISO-20000-PAM-V3” (2014), which has been developed by Nehfort IT-Consulting and approved & provided by intacs®.

The main goal of “SPICE for IT-Services V4” is to align the ISO-20000-PAM:

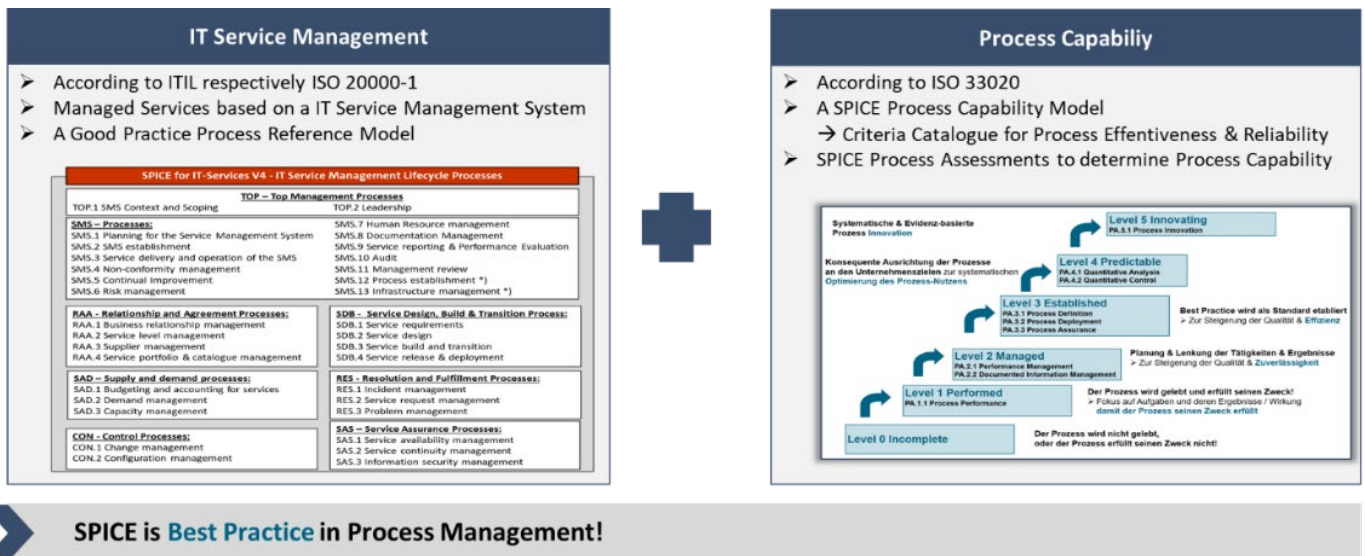
- with the revised ISO 20000-1:2018
- with the new SPICE-Standards of the ISO 33000-series

Why developing “SPICE for IT-Services” – why not using the ISO 33074:2020 “Process capability assessment model for service management”?

- The ISO has developed and released a Process Reference Model (ISO 33054) and a Process Assessment Model (ISO 33074) for IT Service Management.
- From the editor’s point of view the ISO 33074:2020 is not suitable / appropriate for the purpose to assess IT Service Management according to ISO 20000-1:2018.
- So, the editors have created a new Process Reference- & Assessment Model “SPICE for IT-Services”, adopting elements of the structure of the ISO 33074 but not strictly following this ISO standard itself.

The Process Assessment Model “SPICE for IT-Services” shall combine the best of two worlds:

- IT-Service Management Processes and Systems according to ISO 20000-1:2018
- The SPICE Process Capability Model and SPICE based Process Assessments.



SPICE is Best Practice in Process Management!

Figure 19: Combination of IT service management and process capability

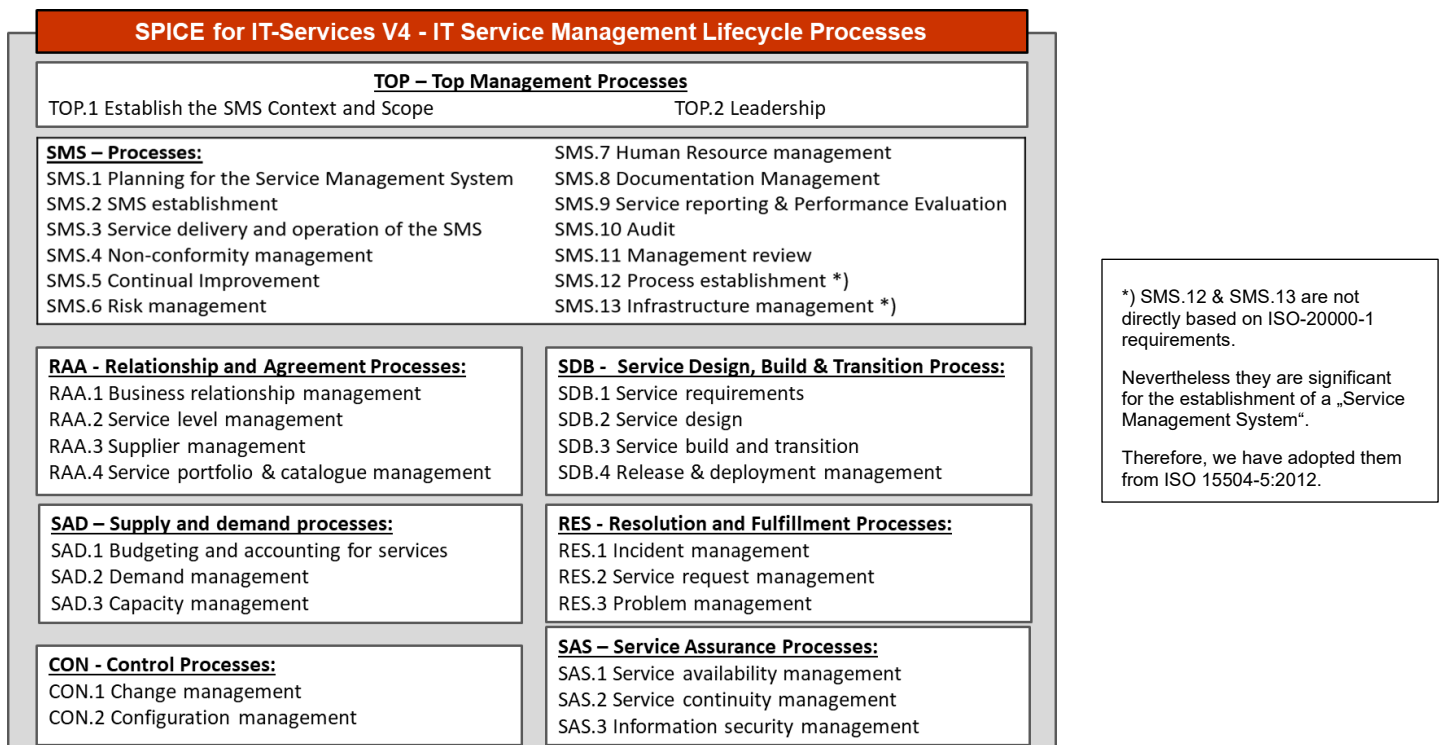


Figure 20: “SPICE for IT-Services” – Process Landscape

Support for “connected car services”

The future of “the car” is to be connected → always online

- Onboard units in the car connect and communicate with other cars, roadside devices, cloud services (e.g., POI Management, Navigation, Automated Valet Parking, Trunk Shopping Delivery, ...), Buzz word: “car-to-x-communication”
- This evolution has some affinity to IoT (Internet of Things) particularly when you look to the movement from “assisted driving” to “autonomous driving” in level 1 to 5
- In the future functionality will be provided more and more in distributed networks of services

Connected car services are consisting of two corresponding types of elements:

- The server side or cloud service
- The car, respectively the software-based communication system(s) in the car.

Certain aspects of the car-side are covered by ISO/IEC 21434 and Automotive SPICE® for Cybersecurity, but these standards do not cover the corresponding aspects on the server side.

The quality and trustworthiness of such capabilities cannot longer be ensured just by car-centric and development-focused models like Automotive SPICE® and its extensions.

We need models which ensure quality and security in the interplay of IT-services.

We need models which help to bridge the gap between different competencies, which typically have been neatly separated in the past:

- Automotive engineering and engineering for software-based systems
- IT Service Management.

Our PAM “SPICE for IT-Services” shall contribute to bridge this gap!

For this purpose, we want to enhance the model with domain specific reference processes and performance indicators for area of “connected car services”.

Contact: Andreas Nehfort (andreas.nehfort@intacs.info) and Klaus Hoermann (klaus.hoermann@intacs.info)

Status of Working Group “Agile SPICE™”

Long-term goal

- Create a new PAM “Agile SPICE™” including training material and exam
- Support (automotive) organizations in their agile transformation and retaining Automotive SPICE® capabilities
- Provide guidance for agile organizations in implementing Automotive SPICE® intents
- Acceptance by intacs®, ECQA, and industry

Achievements

- Development of Agile SPICE™ with several great contribution from industry – including pilot assessments
- Agile SPICE™ PAM is released by intacs®

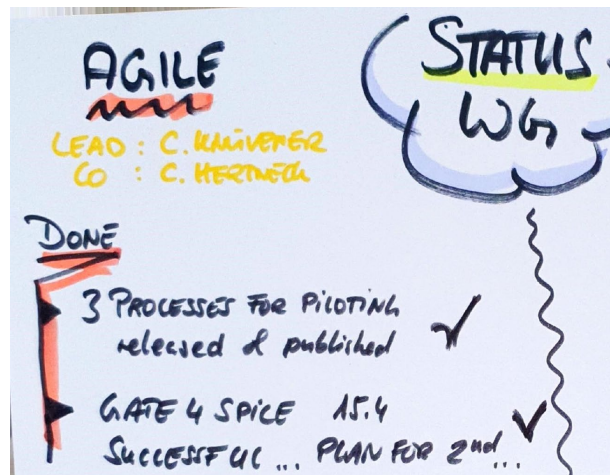


Figure 21: Status of Agile SPICE™

Next steps

- Development of Training slides, exercises, and exam questions
- Review, Approval for piloting, Piloting, Approval for Training
- Certification body ready for performing exams
- Pilot training scheduled for 8-9. Dec. 2022

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Status of Working Group “Procedures”

The Working Group “Procedures” is set up with the goal and objective to complete/update the procedures and templates in line with the state-of-the-art process demands.

- Templates with guidelines to fill-in the content for the templates
- Procedures to guide the assessor community with easy understanding and application

Some of the updates from the workgroup have been defined dynamically based on the procedure within intacs® community by documenting the:

- Procedure for writing procedures,
- Procedure for publishing certificates,
- Training Material release procedure within the Working Group – proposal to be embedded with workgroup procedure.

Besides we updated the intacs® code of conduct and assessment log and application for assessor registration.

Additionally, the group has supported the assessor community in Korea with the review of the Korean FAQ for Automotive SPICE®.

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Status of Working Group “Information management”

Achievements

- Information distribution of intacs® relevant topics to the certified assessors
- Publication of intacs® info letters
- Design of the intacs® CI and market presence
- Support for external communication, dissemination of awareness and recruitment of new members



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