

YOUR GUIDE BETWEEN NEW SPACE AND ECSS



20+ years in
space industry

- ➔ Hands-on Support
- ➔ ECSS Expert

I'm Bernhard Bals – aerospace engineer with over 20 years of experience, including many years in ECSS-based product assurance.

I've supported ESA missions, built product assurance systems from the ground up, and worked with New Space and established project teams navigating complex ECSS requirements.

What I've seen again and again:
New Space teams rarely struggle with the technology. The real challenge lies in translating these standards into practical, scalable workflows.

I understand both worlds – the fast, solution-driven and creative mindset of New Space and the structured, process-oriented logic of established space organizations.

My mission:

To connect these two worlds – so your team can deliver with focus and certainty, without losing the agility and innovation that drive your success.

- Quality Manager (QM-TÜV)
- QM System Auditor ISO 9001 (TÜV)
- QM Internal Auditor EN 9100 (BSI)
- Systems Engineering (UNSW)
- Project Management (IPMA-D)
- Business Coach (Leadership)

QUALIFICATIONS

LET'S CLARIFY YOUR PATH TO NEW-SPACE PRODUCT ASSURANCE

ECSS requirements can be complex.

But with the right processes, they become manageable – and stop pulling your team away from engineering and development.

In a free check-in call, we'll clarify together:

- ➔ Where your project currently stands
- ➔ What steps it actually needs
- ➔ How you can meet ECSS requirements without losing agility

You want to keep your focus on innovation and engineering – not paperwork and reviews?

Scan the code to learn more about New-Space Product Assurance and book your free check-in call.

LEARN MORE
AND GET IN TOUCH



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BERNHARD BALS
Engineering • Quality • Management • Culture

NEW-SPACE PRODUCT ASSURANCE

Meet ECSS expectations – without losing your speed, focus or innovation

Clear, scalable processes
for New Space teams working with
established space organizations

BERNHARD BALS
Engineering • Quality • Management • Culture



THE CONTRACT IS SIGNED – AND SO ARE THE ECSS REQUIREMENTS.

The established space client is on board. Finally.

But then the ECSS requirements turn into operational reality: Product Assurance Plan, Critical Items Control, Configuration Items Data List.

What first seems like a formality can turn into a major operational challenge – especially for agile teams with limited resources and tight schedules.

Typical project dynamics:

- ➔ Documentation is submitted – but doesn't meet the client's expectations.
- ➔ Rework starts under pressure – with no time and no clear process.
- ➔ Reviews get delayed. Decision-making slows down.
- ➔ The team runs out of time. The client loses confidence.
- ➔ Despite full commitment and long nights: product assurance becomes a bottleneck.

It doesn't have to be this way.

With the right structure and support, your team can meet ECSS expectations without losing speed, focus, or your New Space mindset.



WHAT IF PRODUCT ASSURANCE DIDN'T SLOW YOU DOWN – BUT HELPED YOU DELIVER WITH CONFIDENCE?

Many New Space teams are surprised by how much structure and documentation, ECSS compliance actually involves.

ECSS frameworks don't just demand compliance on paper – they require consistent documentation, traceable processes and cross-team alignment throughout the project.

But when these processes are implemented with clarity and purpose, your team stays on track and free to focus on what truly matters: innovation and development.

What this looks like in practice:

- ➔ Your next review runs on schedule
- ➔ Your team works with focus, not in firefighting mode
- ➔ Your client values your strengths – in both tech and delivery

This is what New-Space Product Assurance is about.

New Space. Established Space.
Bridged by someone who knows both worlds.

THREE WAYS I WORK WITH YOUR TEAM TO BRIDGE NEW SPACE AND ECSS

STRUCTURE. CLARITY. CONFIDENCE.



Product Assurance Plan

A tailored, ECSS-compliant plan that supports your team's way of working – with structure and clarity from day one.

Timeline: approx. 4 weeks

Best for: Teams who want a solid and structured foundation early in the project.



Milestone Review Support

Structured preparation, documentation and moderation – so that your reviews run smoothly and milestones stay on track.

Timeline: approx. 3 months

Best for: Teams approaching key reviews or contract milestones.



Full Product Assurance Support

Comprehensive support – from proposal to delivery, remote or on site.

Timeline: flexible, based on your project needs

Best for: Start-ups ready to scale – with a clear, reliable process framework.

HOW I CAN SUPPORT YOUR MISSION