Integr8tor v2019.07

Release notes
Ucamco NV - Belgium

Integr8tor

v2019.07

Introducing C8Inspect...

64 Bit

Multi Core

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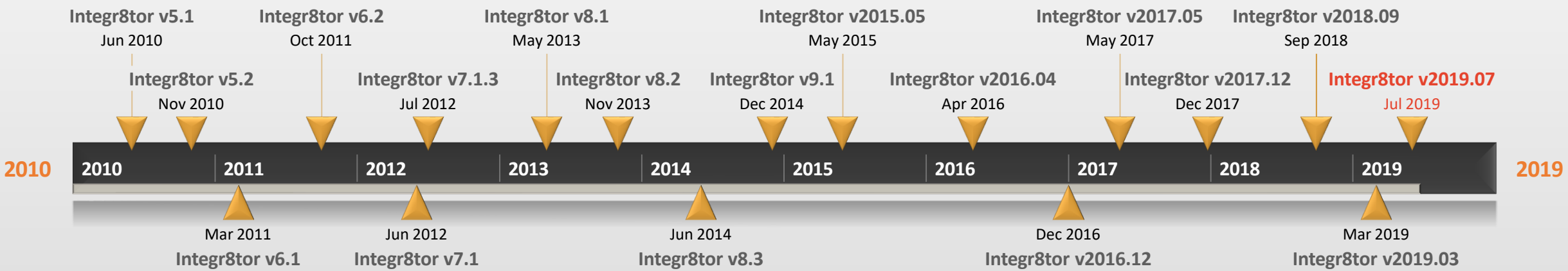
Serving our customer base with regular updates



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Serving our customer base with regular updates

Version	Release date	Highlights	
7.1	Jun-12	Localized interface.	Line width on planes.
7.1.3	Jul-12	Bug fix release for 'recovered job'.	
8.1	May-13	Support for ODB++ v7.	Compatible with Windows server 2012 and windows 8.
8.2	Nov-13	Detection and flagging of duplicate archives.	Edge connector recognition.
8.3	Jun-14	New standard parameters.	Determination of laser/mechanical drilling.
9.1	Dec-14	Support for Gerber X2 datasets.	Optimized and new QED values.
2015.05	Jun-15	New standard parameters.	Determination of laser/mechanical drilling.
2016.04	Apr-16	SMD/BGA pads differentiates copper- and solder mask defined	DFM Checks (former Capabilities) revised
2016.12	Dec-16	Introducing Integr8tor Job Perspectives	Drill hole tolerances
2017.05	May-17	Support for PCB Surface finish	Same-sized jobs detection
2017.12	Dec-17	Checkpoint review extensions for various QED results	Analysis of via holes with different solder mask openings top/bottom
2018.09	Sep-18	New QED feature: Minimum Critical Trace Width	User-selectable layer registration
2019.03	Mar-19	Measure functionality and freely displayable layers in Checkpoint	Extended import&export support for advanced ODB++ features
2019.07	Jul-19	Introducing C8Inspect	QED Ring Analysis per tool function

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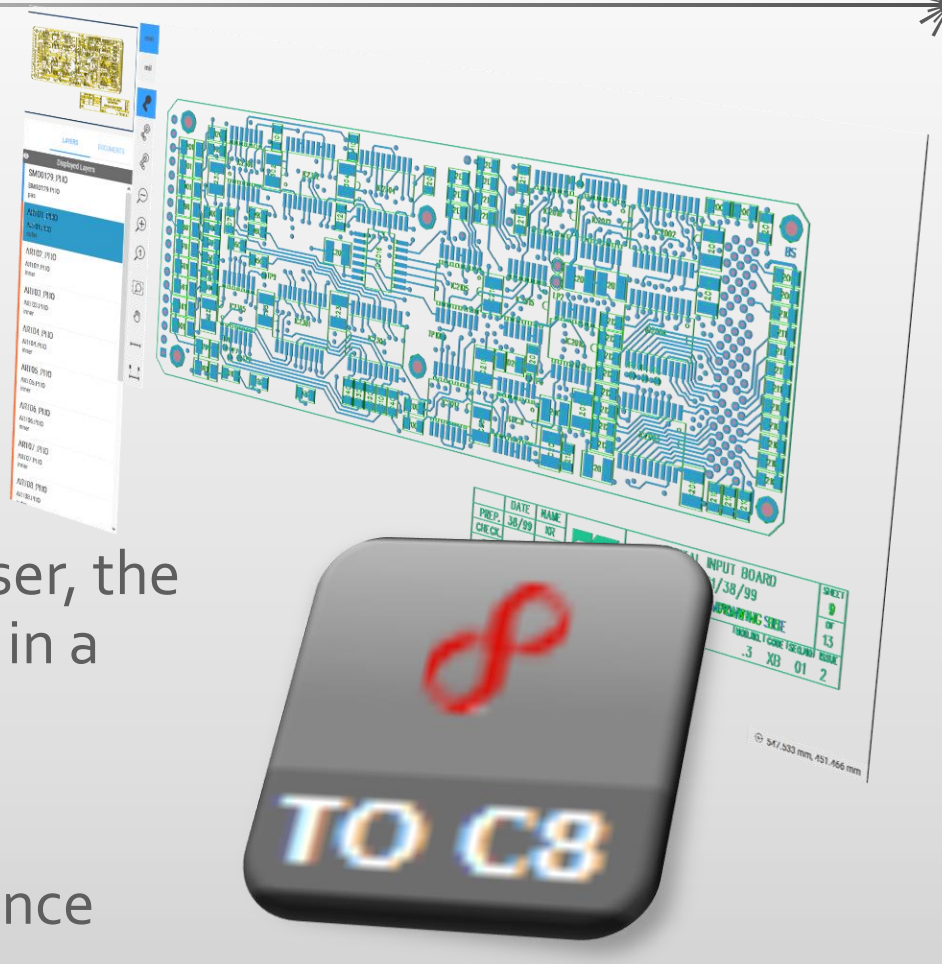
Introducing C8Inspect…



What is it…?

- A **cloud service**, offered by Ucamco
- Providing a **web-based platform** for **dynamically viewing PCB manufacturing data**
- And presenting the PCB's **blueprint** to the end-user, the designer or anybody else involved in the process in a convenient and elegant way
- With a **direct link** from **Integr8tor**
- As a **free-of-charge** option for Integr8tor maintance customers

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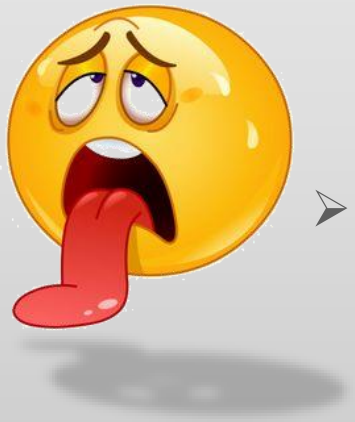
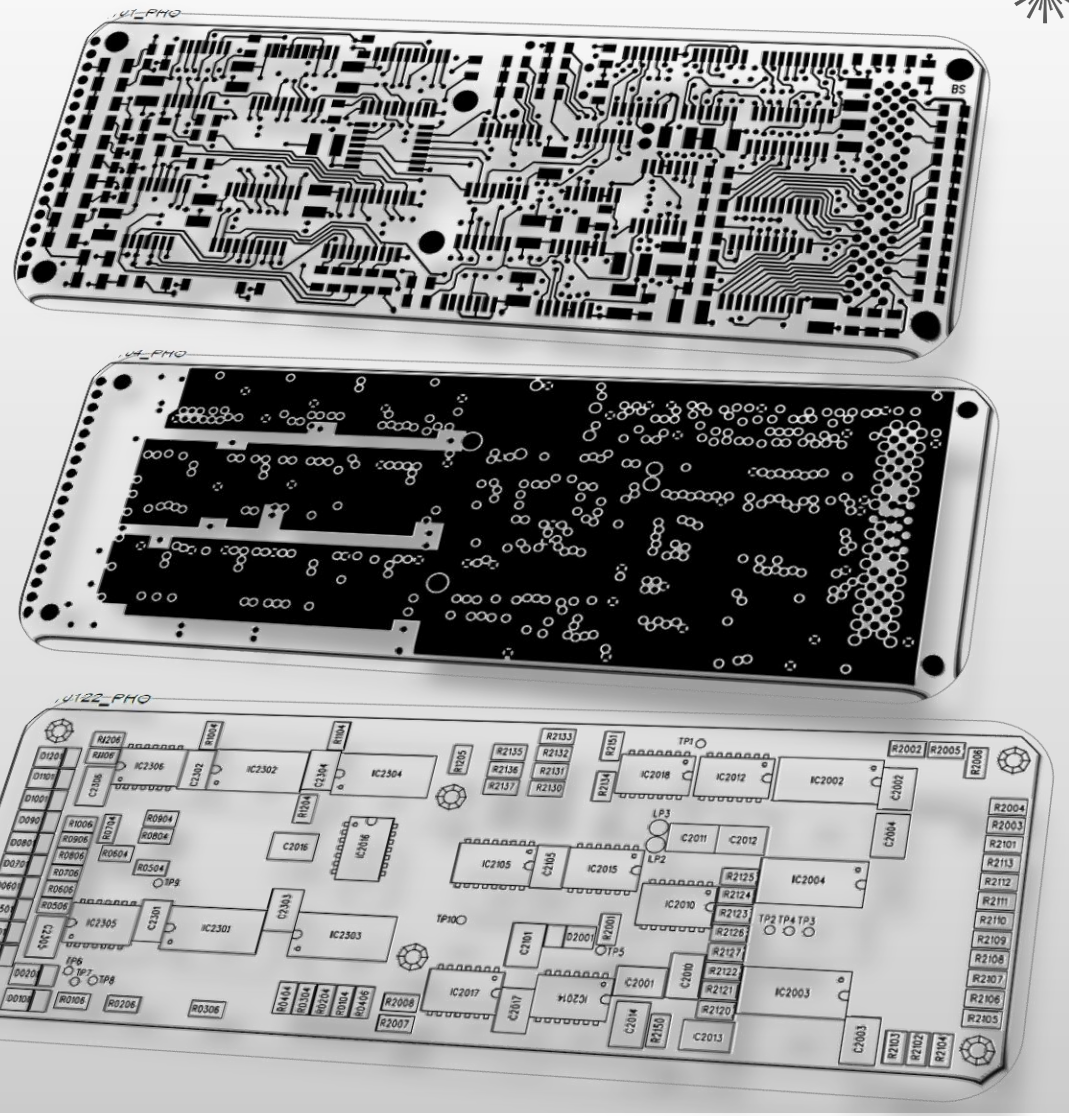
Introducing C8Inspect…

Why would you want it…

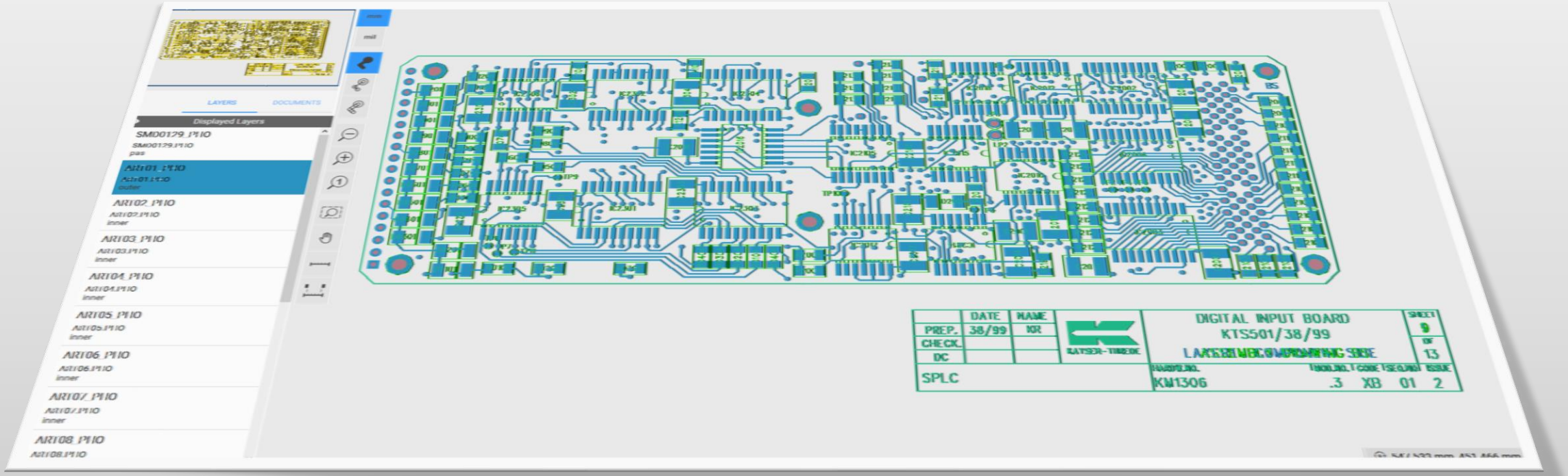
- PCB manufacturers often provide printed images of the individual layers in the PCB back to their customer, as a courtesy and to serve as a kind of "blueprint" of the board
- Some customers may demand this as part of the standard quotation procedure
- Existing Integr8tor option to output layer images is static and may not offer the required level of detail and information…





Introducing C8Inspect…

Enter C8Inspect…



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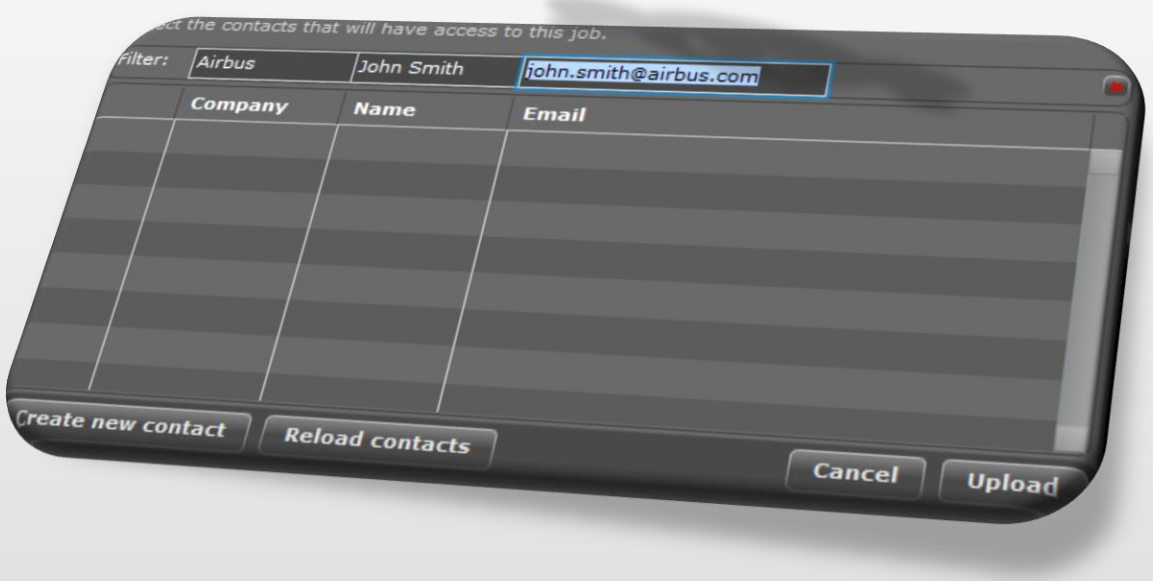
C8Inspect benefits…

- Provides dynamically viewable data, rather than static images
- Features a direct link with Integr8tor for easy data uploads and managing job contacts



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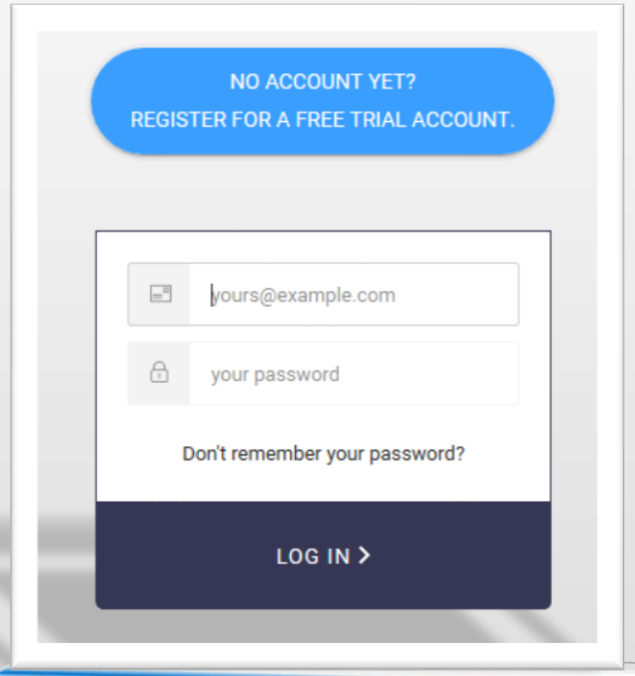
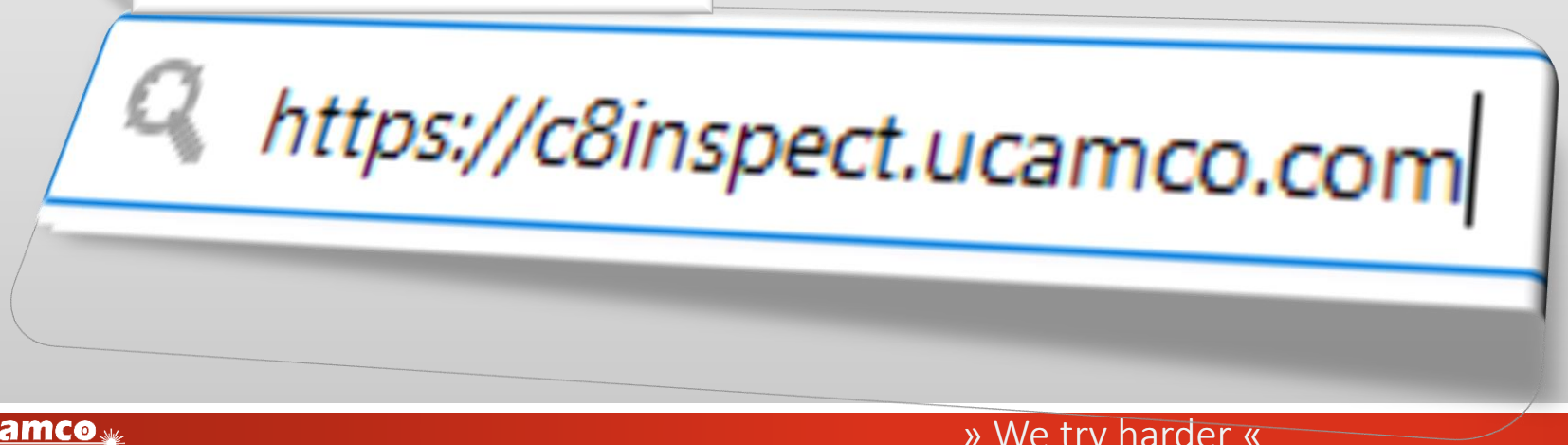
C8Inspect benefits…



- No special software installation required for viewing
- Simple browser and secure account information is all it takes
- Easy data access…
  - for Integr8tor users via a single click in Cockpit
  - for end-user from an Email link
- Access through any browser-enabled device

  (Desktop, Laptop, Tablet,…)



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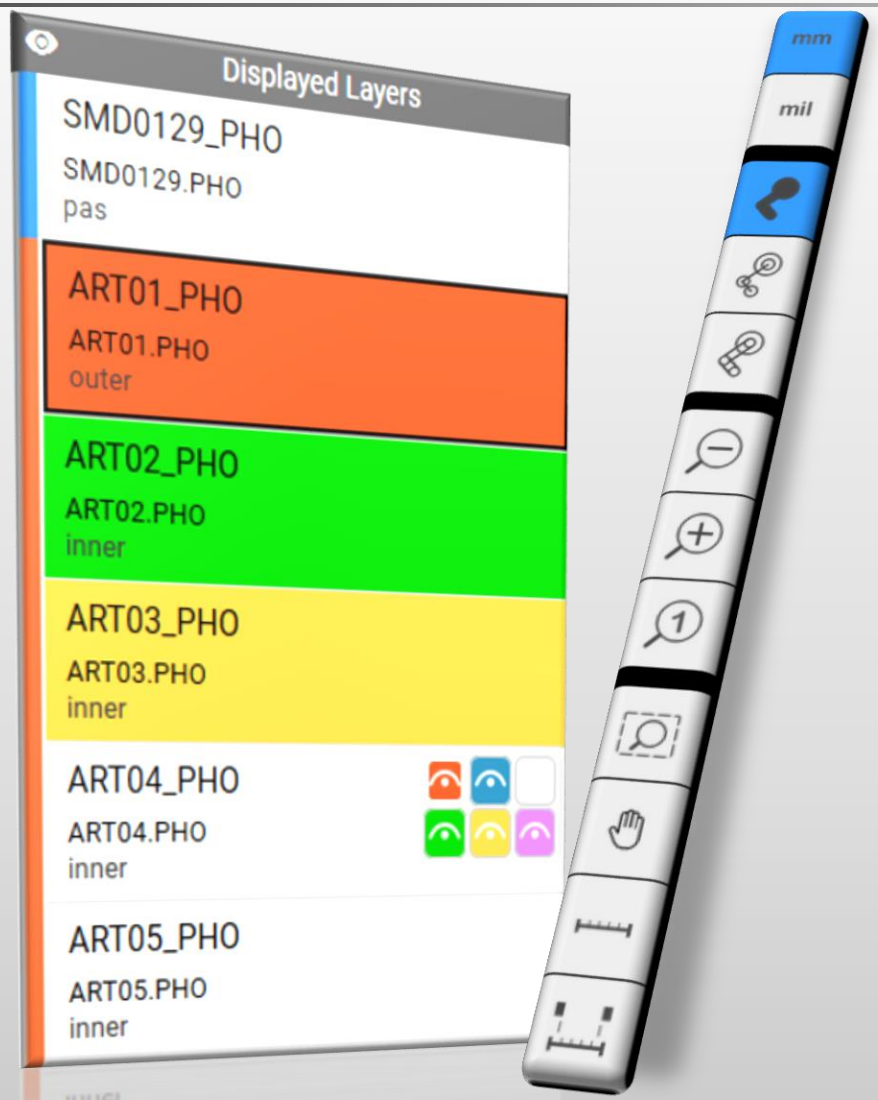
C8Inspect benefits…



- Full job stackup with multiple layer display capabilities
- Intuitive and easy-to-use layer display tools
- Zooming and panning on any area of any layer of the board
- Various data display modes

  filled – skeleton – outlined
- Measuring tools and built-in query function
- Freely choosable unit of measure

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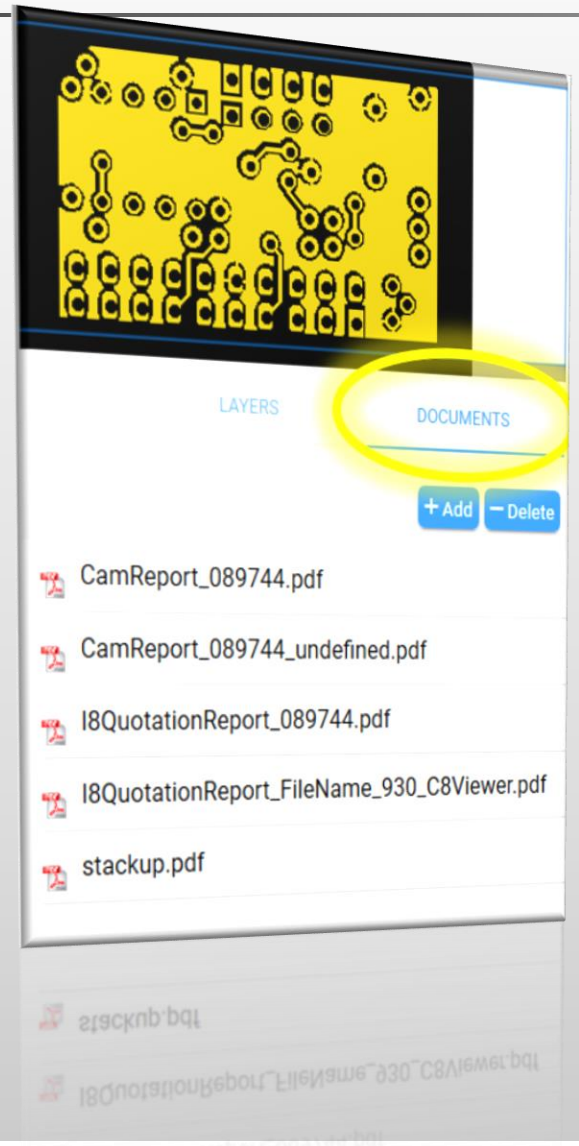
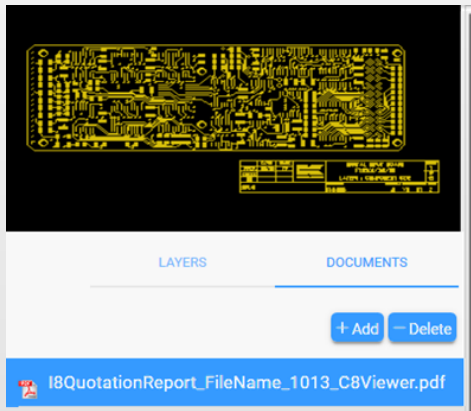
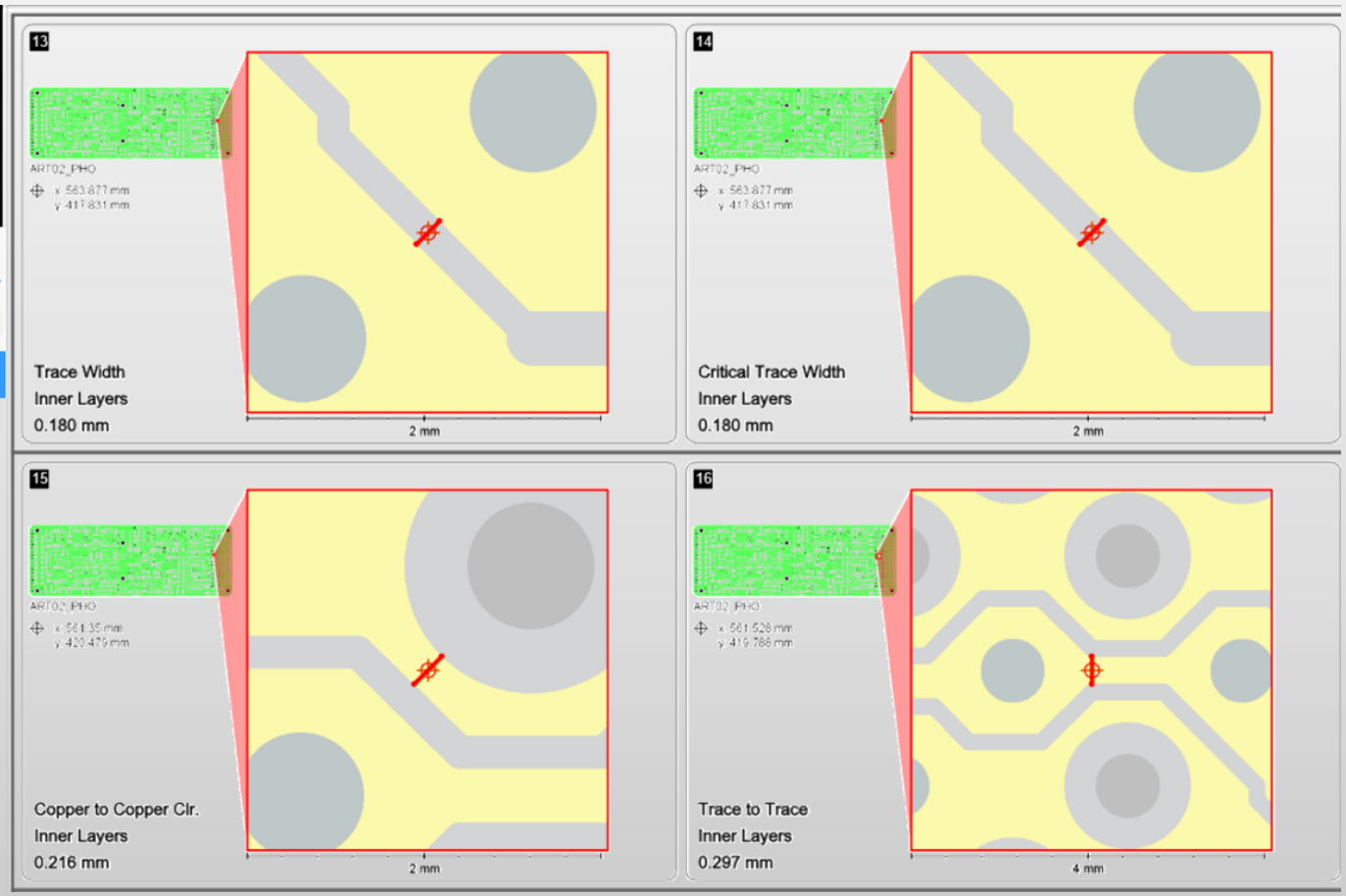
C8Inspect benefits…



- Includes the upload of Integr8tor QED PDF analysis reports and a PDF viewer plugin for on-line review by the end-user





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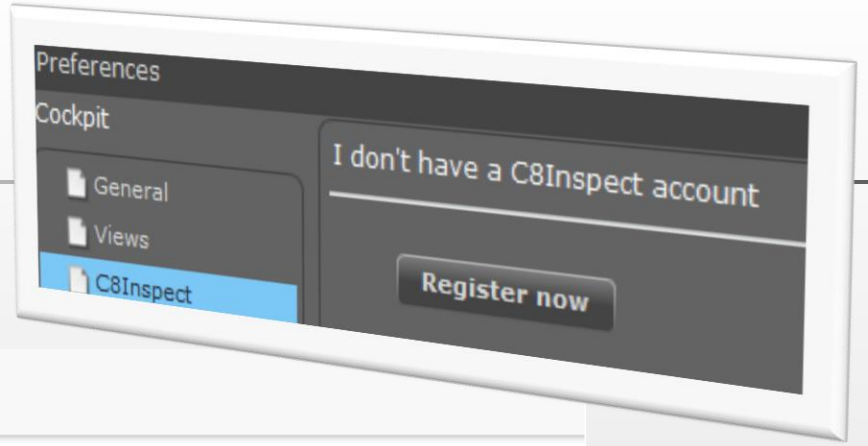
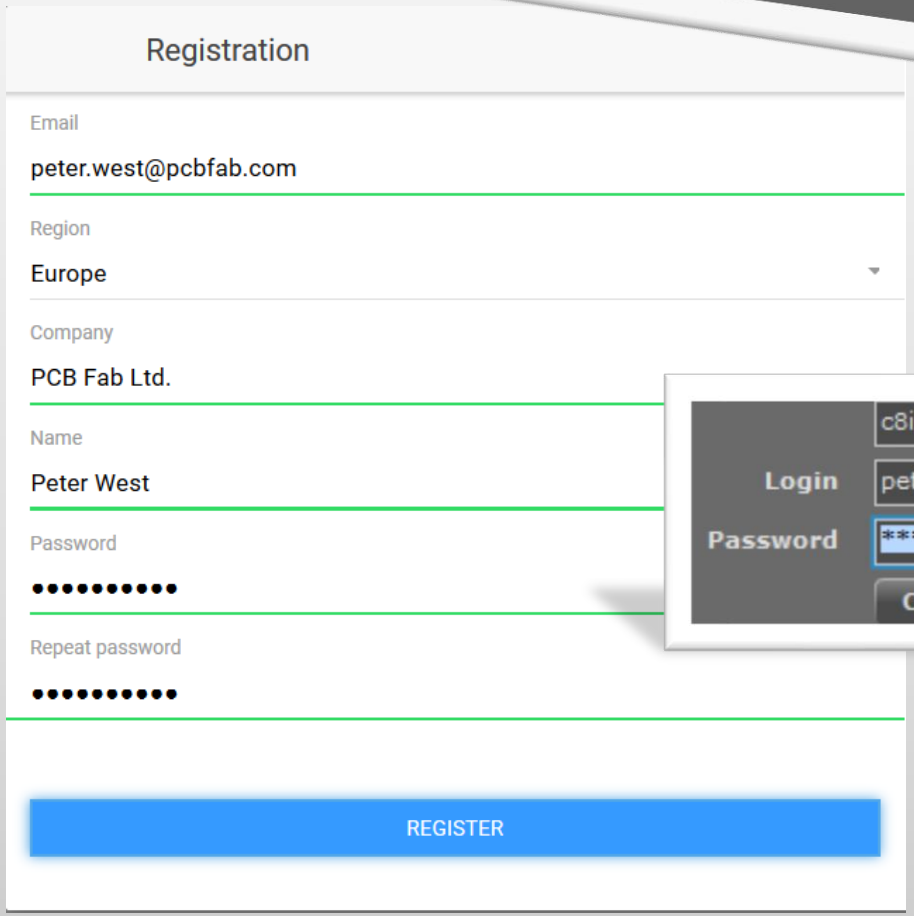
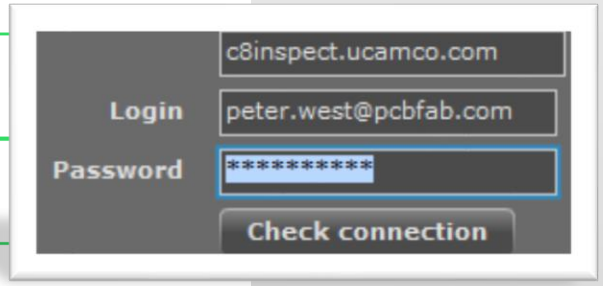
How C8Inspect works…

- The Integr8tor user (PCB Manufacturer)…
  - Goes to Cockpit > Preferences > C8Inspect and clicks "Register now"
  - This triggers a first-time on-line registration procedure with the Ucamco C8Inspect cloud service
  - After successful registration and confirmation he enters his C8Inspect account info in the Integr8tor Cockpit Preferences under C8Inspect







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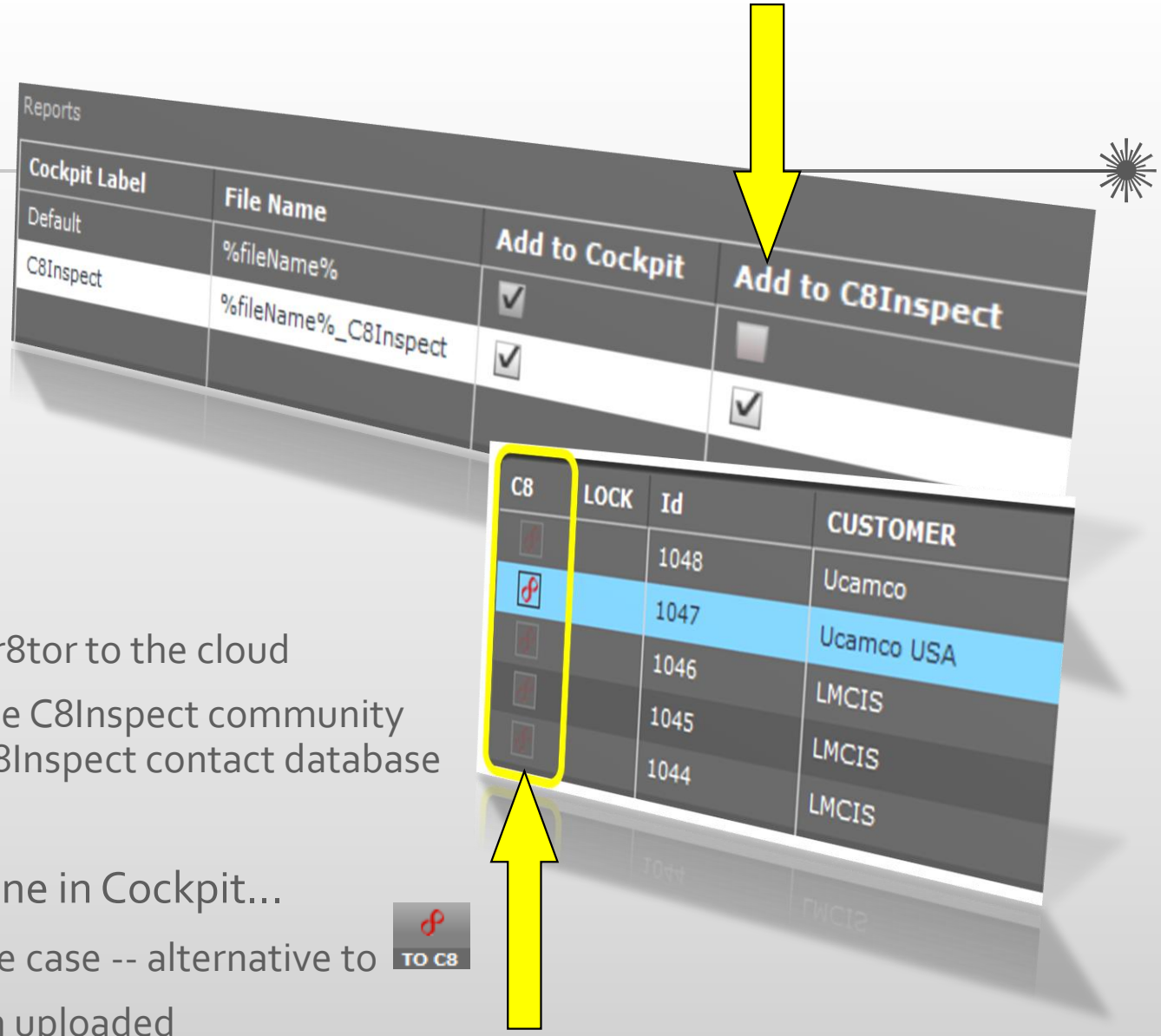
How C8Inspect works…

- **The Integr8tor user (PCB Manufacturer)…**
  - In Preferences > Output > QED Report (PDF), he defines one or more (extra) PDF reports and ticks "Add to C8Inspect" for automatic upload to C8Inspect along with the job data
  - From then on he can
    - upload jobs and associated report(s) from Integr8tor to the cloud
    - Invite new contact persons to become part of the C8Inspect community by adding their Email addresses in the on-line C8Inspect contact database
    - assign existing contact persons to jobs
  - Clicking the new C8Inspect icon on the job Id line in Cockpit…
    - uploads the job/report to C8Inspect if not yet the case -- alternative to
    - opens the job on C8Inspect if it has already been uploaded



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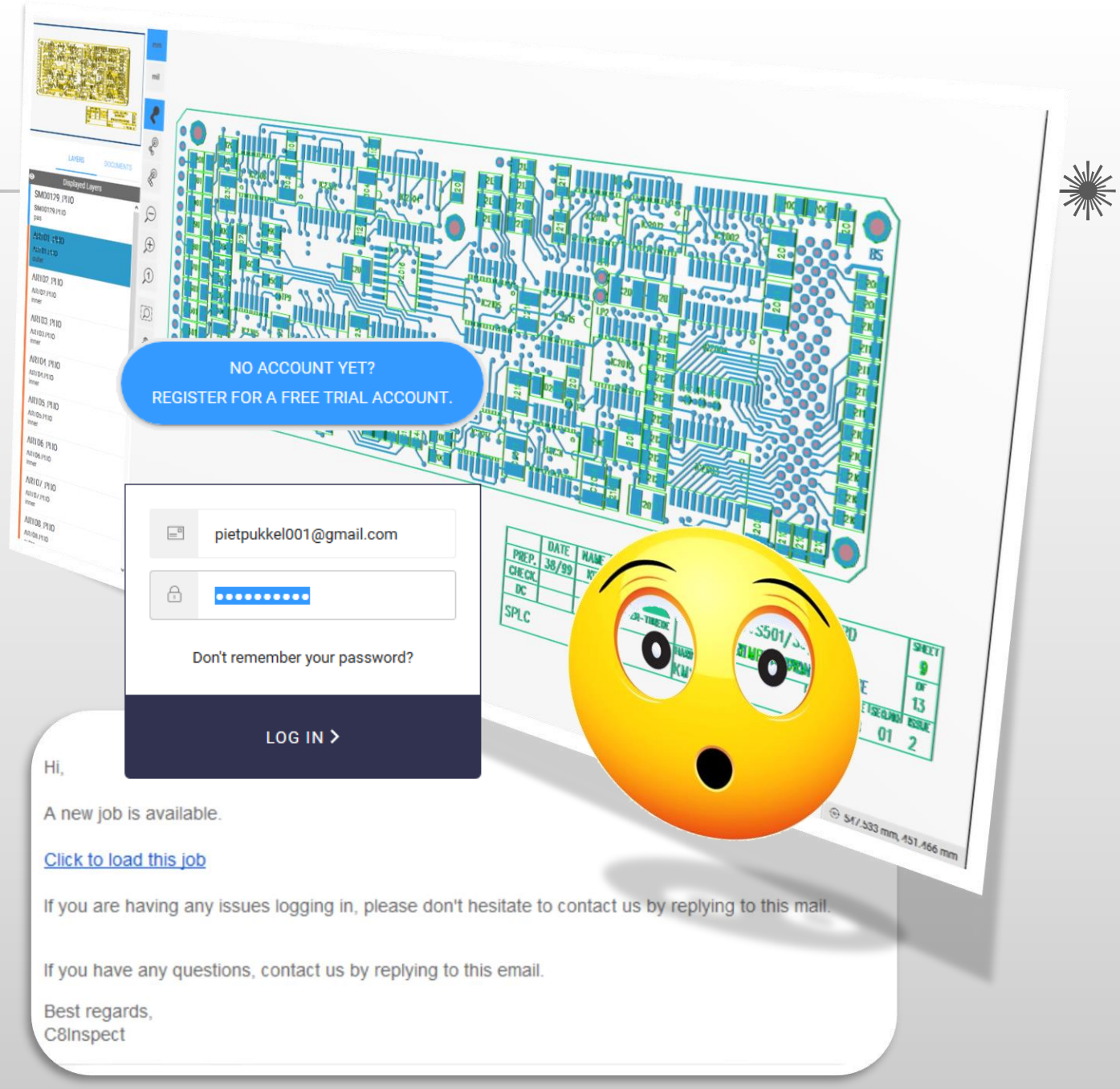
How C8Inspect works…

- **The end-user (e.g. Designer)…**
  - Receives an Email the very first time a PCB manufacturer introduces him as a contact on the C8Inspect platform (one-time event)
  - Clicks the Email link to the C8Inspect portal, creates his personal account with Email and password and completes the registration procedure
  - Will be advised via an Email with a link each time a PCB manufacturer assigns him as the contact for a job.
  - Simply clicks this Email link, enters his credentials (Email address & password) on the C8Inspect portal and is granted access to the job data



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C8Inspect in a nutshell…

- Easy-to-use tool for sharing and viewing PCB manufacturing data and QED PDF analysis results
- Free-of-charge
- Cloud-based so running in a browser - no extra software required for viewing the data on the client side
- Usable on PC, laptop or handheld devices – information universally available and always close at hand
- Does not require Ucamco to provide access – all is done on-line by the users directly
- Makes communication between the different parties efficient and direct

Check out
the C8Inspect
introduction videos on
www.ucamco.com and YouTube

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C8Inspect

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Enhancements

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Enhancements – QED Ring Analysis per tool function

- QED Ring analysis values split up and reported separately for
  - Component holes
  - Via holes
  - Laservia holes
  - Mechanical holes

Copper Layer Minima - Copper vs Drill - Original

File	Pos.	Ring				
		Overall	Via	Laser Via	Comp.	Mech.
		mm	mm	mm	mm	mm
TOP_art	1	0.100	0.100	0.100	0.190	>0.800
GND_art	2	0.100	0.101	0.100	0.190	>0.800
INT1_art	3	0.100	0.100		0.190	>0.800
INT2_art	4	0.100	0.100		0.190	>0.800
GND1_art	5	0.101	0.101		0.190	>0.800
VCC_art	6	0.100	0.100		0.190	>0.800
INT3_art	7	0.102	0.102		0.190	>0.800
GND2_art	8	0.101	0.101		0.190	>0.800
INT4_art	9	0.102	0.102		0.190	>0.800
INT5_art	10	0.100	0.100		0.190	>0.800
GND3_art	11	0.100	0.101	0.100	0.190	>0.800
BOTTOM_art	12	0.101	0.101	0.102	0.190	>0.800

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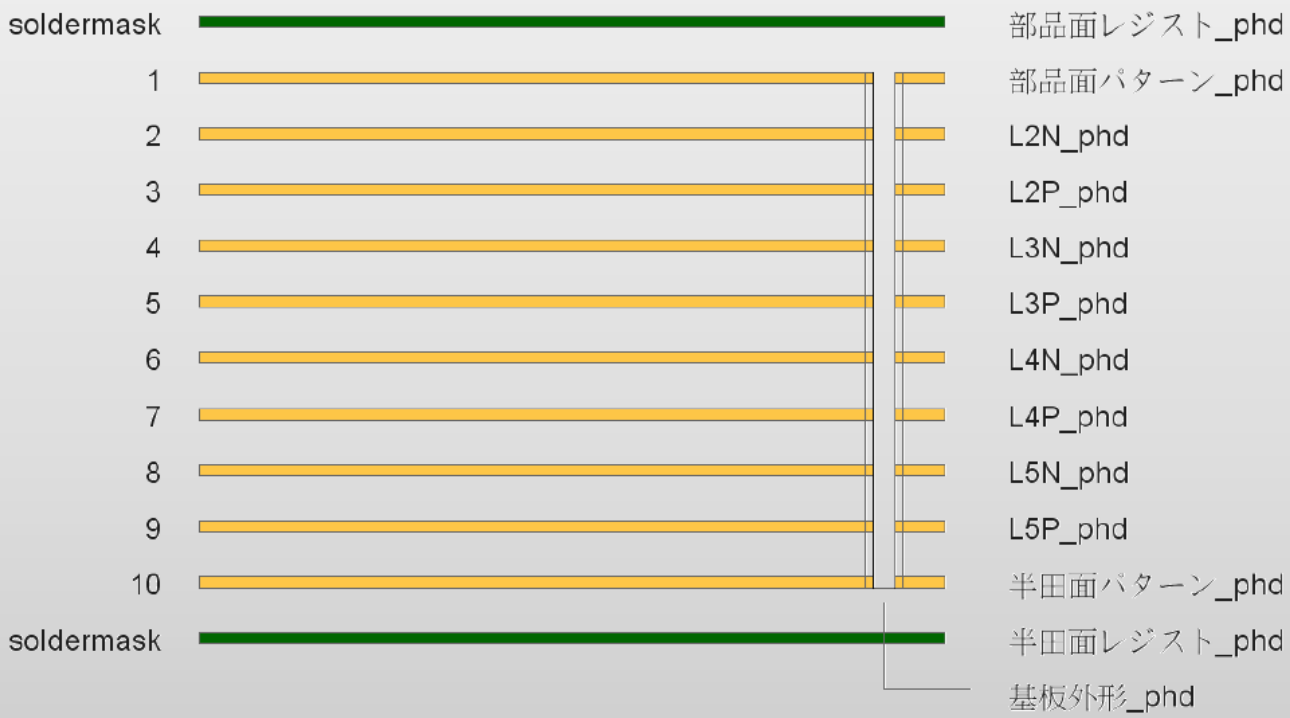
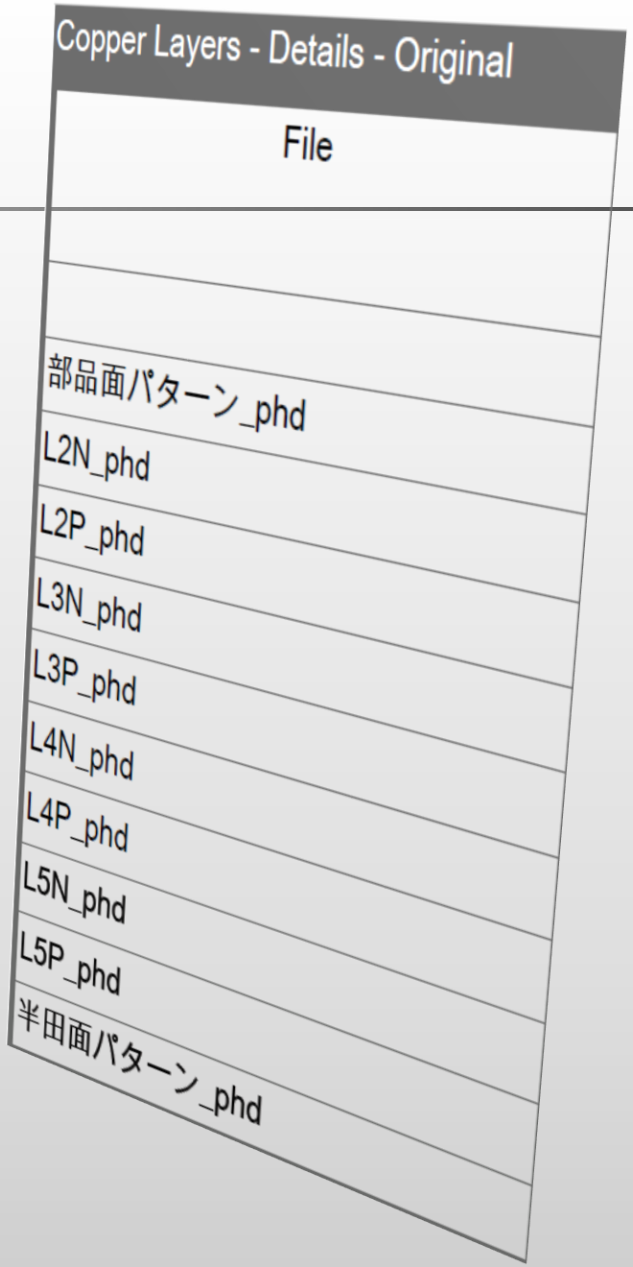
Enhancements – Miscellaneous

- Non-ascii characters in filenames (like Ü or Ė or Japanese/Chinese characters…) are no longer replaced with underscores but displayed the way they are present in the incoming archive





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Enhancements – Miscellaneous

- QED PDF report available with Japanese localization
- Improved recognition and better support for stackup and aperture list information in Japanese language
- Added support for automatic input of Posalux drill files
- Added support for drill files mixing Posalux and Excellon commands

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Code Fixes

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Code fixes

Integr8tor v2019.07 also features the following code fixes and enhancements…

- An issue has been fixed with the visualization of zero-sized draws in the SWF images shown in Cockpit
- In the context of Ustack, empty data exchange directories could be created. This has been corrected and is no longer the case
- Tray scripts attached to a terminal tray where output files are generated were executed after this output had been produced, which could lead to undesirable results. Now the tray scripts are executed before output takes place
- The tray script function "I8Job.jobChangeLocation()" had stopped working. This functionality to move a job from one tray to another from within script has now been restored
- In certain cases, jobs that had been edited in a "To Ucam" session could cause the subsequent Integr8tor process to "terminate unexpectedly". This problem has been addressed

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Code fixes

- Specific code pages in use on the Integr8tor server could cause the generated SSX files for the Ustack link to be corrupt. This is no longer the case
- ETM layers resulting from the input of an IPC-D-356B file could cause an inconsistency in the number of layers in the job. As they are not relevant for the QED process, these layers are now no longer imported into the Integr8tor job
- Corrupted incoming archives previously causing a "invalid entry CRC ZipException" are now handled gracefully and will no longer cause the process to crash

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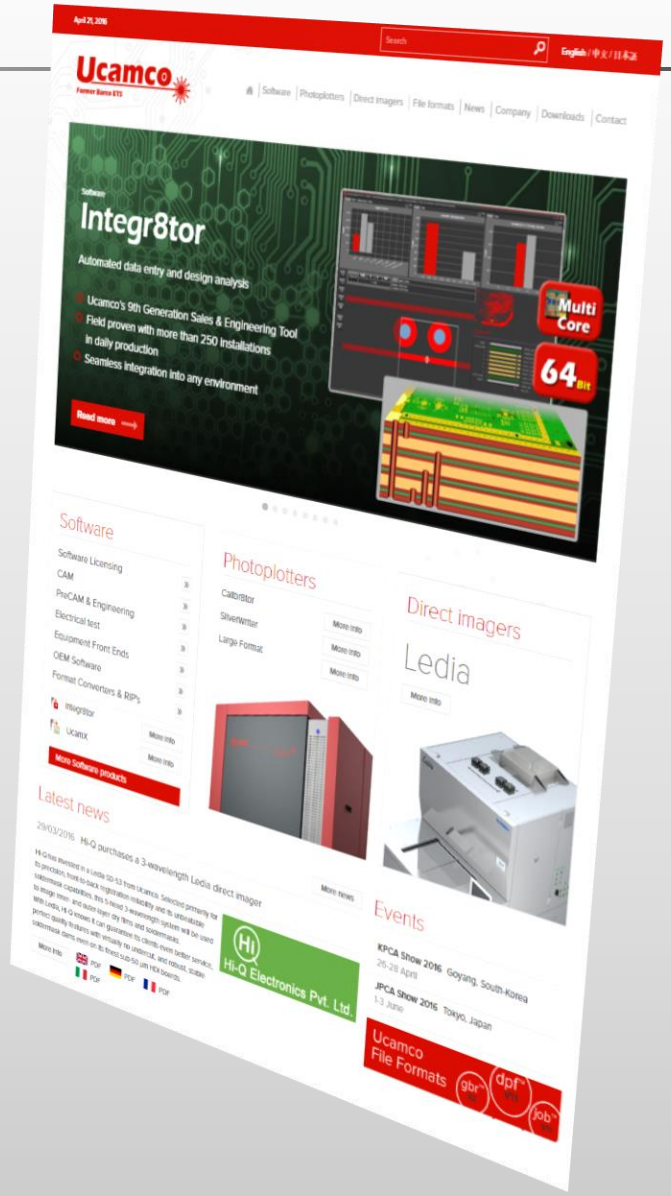
Download information

- The installer can be downloaded from ftp://ftp.ucamco.com/Integr8tor
- We recommend that you install this update at your earliest convenience
- For any further questions you may have, please contact our local business partner or the Ucamco helpdesk
- We thank you for choosing a Ucamco product



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