# Minutes of the 6th The Hermes Standard Initiative Meeting

Date: 3rd of February 2020
Venue: San Diego, APEX EXPO fair grounds @ convention centre, room 33AB
Minutes: Håkan Sandell, Chair

| **Participating 19 (33%) companies in alphabetical order** | |
|---|---|
| ASM Assembly Systems | KIC |
| BTU | KULICKE & SOFFA |
| CTI Systems | MYCRONIC |
| Digitaltest GmbH | Nordson Asymtek & Matrix |
| EUNIL | REHM |
| FlexLink | SEHO |
| Göpel electronic | SICK |
| Hanwha | TRI |
| ITW EAE | VISCOM AG |
| | ViTrox |
| | |
| **Initiative members 39 (67%) not being present in the meeting** | |
| 4IR.UK British Systems | Magic Ray Technology |
| 6TL Engineering GmbH | MIRTEC |
| ACHAT5 Engineering GmbH | NUTEK |
| allSMT | OMRON |
| ASYS | OSAI |
| Besi | PARMI |
| CKD | PEMTRON |
| CTS | Rejoint |
| CyberOptics | RG Elektrotechnologie |
| ECD | SAKI |
| ERSA GmbH | Scheid IT |
| EXELSIUS | Seica Automation |
| GKG | SMT Thermal Discoveries |
| Heller Industries | SolderStar |
| IPTE | Sonic Technology |
| JAPAN UNIX | SPEA S.p.A |
| JOT Automation | UIC |
| KEYSIGHT | YJ LINK |
| KOH YOUNG | YXLON |
| kolb Cleaning Technologies | |
| | |

# Agenda of 6th **The Hermes Standard (IPC-HERMES-9852) Initiative** Meeting

| **Introductory event for new members** @ Room 33AB on APEX fair grounds | | |
|---|---|---|
| Welcome & introduction of participants and companies including collection of expectations | Håkan Sandell<br>Chair of the Initiative | 9:00 |
| Introduction to the standard & technical considerations regarding version 1.0.4 & 1.2.1 | Peter Sundström<br>HERMES Moderator | 9:30 |
| Coffee Break powered by Mycronic | | 11:00 |
| Introduction to HERMES initiative approach, agreed principles & evolvement over time | Håkan Sandell<br>Chair of the Initiative | 11:15 |

| Lunch Break powered by Mycronic | 12:00 – 13:00 |
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| **The Hermes Standard Initiative meeting** @ Room 33AB on APEX fair grounds | | |
|---|---|---|
| Welcome<br>• Introduction of new initiative members<br>• Recap 5th Meeting in November 2019 & joint activities since then | Håkan Sandell<br>Chair of the Initiative | 13:00 |
| Status per company (optional)<br>• Status of implementation<br>• Learnings (technical / process / …)<br>• Implementation roadmap per member | All participants | 13:45 |
| Hermes roadmap per company at IPC-Homepage<br>• Presentation of web page | Håkan Sandell<br>Chair of the Initiative | 14:15 |
| Workgroup "Hermes Use-Cases"<br>• Presentation of updated "Hermes Best Practices". | Tom Marktscheffel<br>ASM | 14:30 |
| IPC award ceremony for Hermes initiative | | 14:45 |
| Coffee Break powered by Mycronic | | 15:30 |
| Workshop "Hermes Implementation Projects and IT Infrastructure"<br>• Results of discussions | Solin Ahmad<br>Koh-Young | 15:45 |
| Workgroup MES (CFX) to line (HERMES) communication<br>• Report of status and remaining work | Tom Marktscheffel<br>ASM | 16:15 |
| Future standardization process<br>• Report of HERMES-IPC MoU status | Håkan Sandell<br>Chair of the Initiative | 16:45 |
| Organizational issues & decisions<br>• Members forum activity<br>• Next meeting | Håkan Sandell<br>Chair of the Initiative | 17:15 |
| The Hermes Standard at APEX 2020<br>• Joint marketing (press, signage, ...) | Simon Sandgren<br>Hermes Marketing | 17:30 |
| Wrap-up and end of meeting @ 18:00 | All participants | 17:45 |

| General Information | Who | When |
|---|---|---|
| **Presentation material & access to members area**<br>All presented material can be downloaded by members from the members area of the initiative homepage: https://members.the-hermes-standard.info/download/ | | |

## Introduction for new members (February 3rd, 9:00 - 12:00)

Unfortunately none of the potential new members were able to join.
The morning session was used for training of employees of existing members

## The Hermes Standard Initiative meeting (February 3rd, 13:00 - 17:00)

WELCOME to all members!

The initiative now consists of 58 members. 8 additional companies already agreed to join in one of the next meetings & even more companies are in the final decision-making process.

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|---|---|---|---|---|---|---|
| 4IR.UK BRITISH SYSTEMS | CTS | GÖPEL | KEYSIGHT | OMRON | SEICA | TRI |
| 6TL Engineering | CyberOptics | HANWHA | KIC | OSAI | SEICA Automation | UIC |
| ACHAT5 | Digital Test | HAYAWIN | KOH YOUNG | PARMI | Shenzhen HB | VISCOM |
| allSMT | ECD | HELLER | kolb Cleaning Technologies | PEMTRON | SICK | ViTrox |
| ASM | ERSA | HOLLY | KULICKE & SOFFA | REHM | SMT | YJ LINK |
| ASYS | EUNIL | ILJIN | MAGIC RAY | REJOINT | SolderStar | YXLON |
| BESI | eXelsius | IPTE | MIRTEC | RG Elektrotechnik | SONIC | |
| BTU | FENIX | ITW EAE | MYCRONIC | SAKI | SPEA | |
| CKD | FLEXLINK | JAPAN UNIX | Nordson ASYMTEK | Scheid IT | SYNEO | |
| CTI | GKG | JOT Automation | NUTEK | SEHO | SYSTECH | |

... and counting ...

**Status update per company**

A verbal status update per present member took place. Almost all members have implemented The Hermes Standard and have now more experience with customer installations compared with last meeting ~3 months ago.

Many installations are mixed Hermes-SMEMA and would benefit from upgrading older equipment with Hermes-SMEMA boxes as demonstrated on the IPC-CFX-HERMES demonstration line at APEX. But even lines with partial Hermes installations have proved useful.

More than one member pointed out that upgrade costs associated with older equipment is an important factor for potential customers and we should continue to work on the customer marketing message.

The result of on-going workgroups in form of whitepapers on installation and common use cases was still seen as an urgent task to improve the customer experience even if several members had good feedback.

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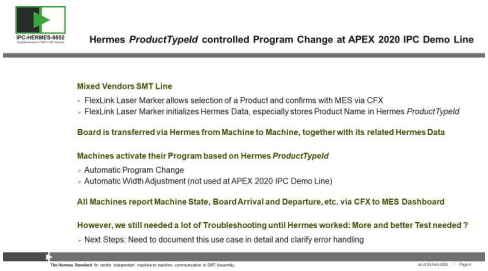
| **Hermes roadmap at IPC homepage**<br>A suggestion of how to present and enter data, similar to CFX way of working has been submitted to IPC for implementation. IPC has not been able to confirm a date for going live on the cfx.ipc.org website. | Håkan Sandell (Chair) / Chris Jorgenson (IPC) | Open |
| **Workgroup "Hermes Use-cases"**<br>  <br>Hermes *ProductTypeId* controlled Program Change at APEX 2020 IPC Demo Line<br>Mixed Vendors SMT Line<br>FlexLink Laser Marker allows selection of a Product and confirms with MES via CFX<br>FlexLink Laser Marker initializes Hermes Data, especially stores Product Name in Hermes *ProductTypeId*<br>Board is transferred via Hermes from Machine to Machine, together with its related Hermes Data<br>Machines activate their Program based on Hermes *ProductTypeId*<br>Automatic Program Change<br>Automatic Width Adjustment (not used at APEX 2020 IPC Demo Line)<br>All Machines report Machine State, Board Arrival and Departure, etc. via CFX to MES Dashboard<br>However, we still needed a lot of Troubleshooting until Hermes worked: More and better Test needed ?<br>Next Steps: Need to document this use case in detail and clarify error handling<br>The Hermes Standard for vendor independent machine-to-machine communication in SMT Assembly<br>as of 03-Feb-2020<br>Page 4<br>The expected whitepaper as result of workshop was not ready. Tom Marktscheffel (ASM) presented the experiences of setting up the APEX demonstration line which made it clear that this work is needed and urgent.<br>As discussed and agreed with 16 to 0 votes the results should be uploaded to the forum to facilitate early discussion and adoption even if formal approval will be at next meeting<br>Presentation: 4_Workgroup_HermesUseCases_6th Meeting.pptx | Tom Marktscheffel (ASM) | March 2020 |
| **IPC award ceremony**<br> <br><br>Awards for contributing to the IPC-HERMES-9852 standard was handed over to individual members by Dave Bergman IPC Vice President.<br>Group photo was taken and everybody celebrated with cake. | Dave Bergman (IPC) | Done |
| **Workgroup "Hermes Implementation Project & Infrastructure"**<br> <br><br>Markus Mittermair (Rehm) and Håkan Sandell (Chair) summarized findings during the workshop. A whitepaper "Hermes IT Success Factors" will be finalized and uploaded to the forum by the workgroup.<br>Some important items to a successful installation are<br>• Project responsible<br>• Early involvement of customer IT<br>• IT topology<br>• IT infrastructure & network<br>Presentation: 6_Infrastructure_workshop.pptx | Hélène Schloter (Ersa) / Stephan Gramlich (Koh Young) | March 2020 |

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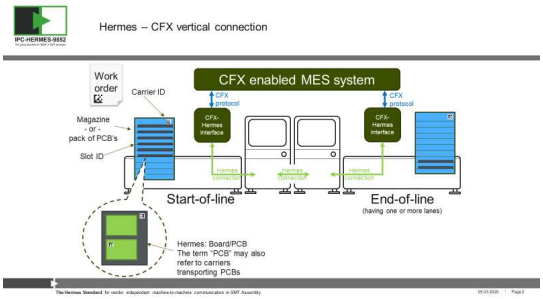
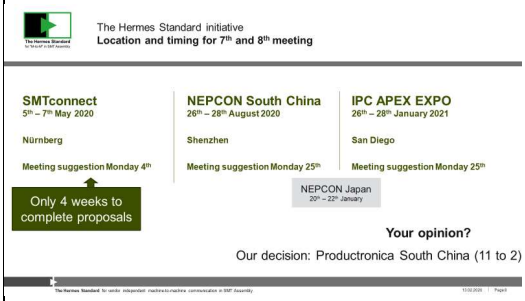
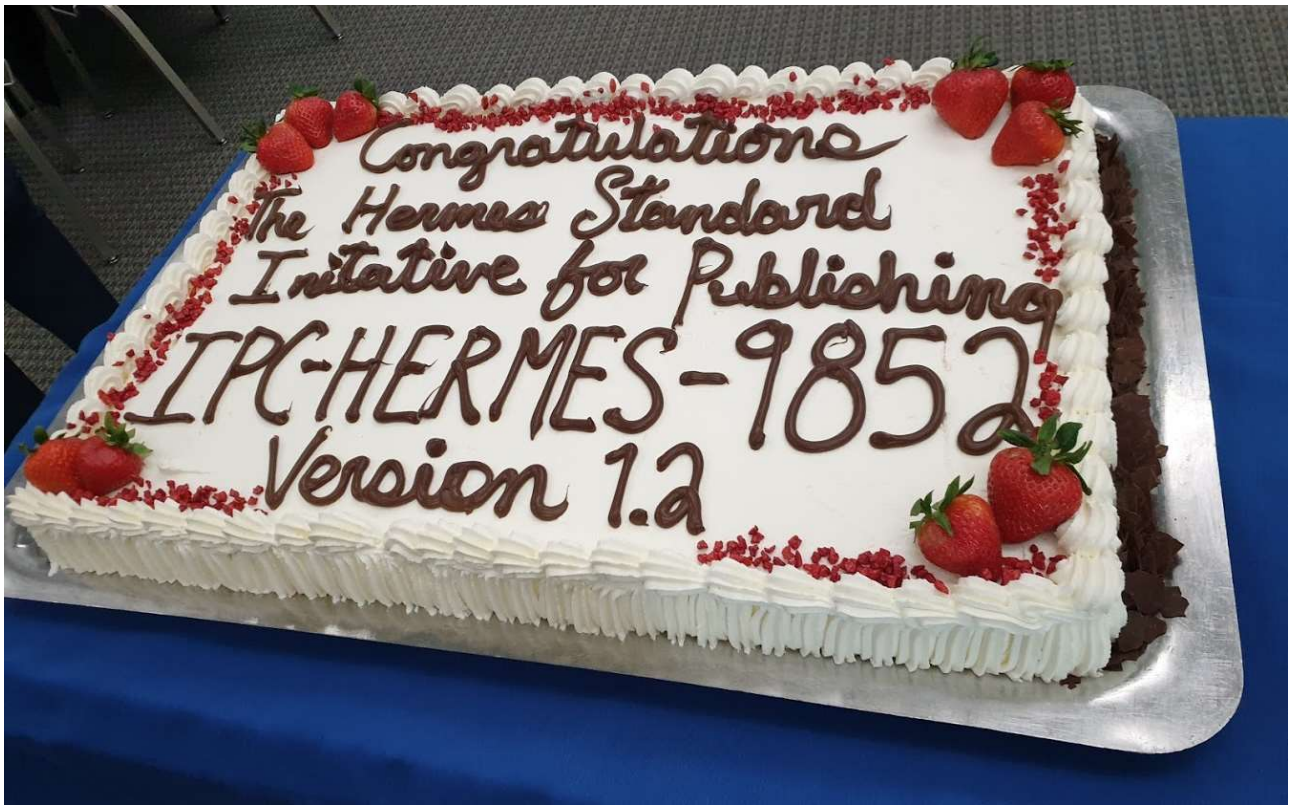
| **Workgroup "MES (CFX) to line (HERMES) communication"**<br>  <br>During efforts to write results of workshop meeting in form of a whitepaper it is clear that an additional workgroup meeting is necessary. This will be planned by Tom Marktscheffel (ASM) and Håkan Sandell (Chair). Håkan presented a graphical view of one of several use cases identified as a preview.<br>Presentation: 7_CFX_Hermes_workgroup.pptx | Tom Marktscheffel (ASM) | Open |
| **Future standardization process**<br>Due to short time since last meeting no MOU was ready to be presented. | Håkan Sandell (Chair) | Open |
| **Next meeting location & meeting host**<br>  <br>The initiative decided to hold the next meeting on Monday the 2nd of November – the day before – **Productronica South China 2020** in Shenzhen in order to minimize the overall traveling effort and to synchronize the activities for the fair while leveraging the planned CFX-Hermes demo line. The draft of the agenda will be sent out 8 weeks before the meeting.<br>**If your company would like to sponsor the next meeting, please be so kind to contact Håkan Sandell.** | Håkan Sandell (Chair) | Open |

## Overview of action items as discussed in the meeting

IPC HERMES 9852

Wrap-up of The 6th Hermes Standard Initiative Meeting
**Open activities**

| Open activities | Lead | Due |
|---|---|---|
| 1. Review & publish "HERMES benefits" in presentation for webpage | Håkan Sandell (Mycronic) | Q2 / 2020 |
| 2. Publish "HERMES technical introduction" slides for webpage | Peter Sundström (Mycronic) | Q1 / 2020 |
| 3. Visualize company roadmap & status regarding the Hermes implementation | Håkan / Chris | Q2 / 2020 |
| 4. Create whitepaper "Hermes Implementation Projects and IT Infrastructure" | Stephan Gramlich (KohYoung) | March 2020 |
| 5. Finalize HERMES Use-case slides and upload to homepage | Tom Marktscheffel (ASM) | Q2 / 2020 |
| 6. Continue CFX / HERMES alignment and drive whitepaper creation | Tom M. (ASM) / M. Ford (Aegis) | Q2 / 2020 |
| 7. Create final proposal for horizontal Inkspot & subpanel BC whispering | M. Sokolowski (Nordsson Matrix) | TBD |
| 8. Prepare MoU to convert Hermes initiative into IPC standardization process | Håkan Sandell (Mycronic) | LEAP 2020 |
| 9. Organize 7th meeting at Productronica South China 2020 | Håkan Sandell (Mycronic) | LEAP 2020 |
| 10. Organize next joint multivendor showcase for Productronica South China 2020 | Chuck Li (IPC) | LEAP 2020 |

The Hermes Standard for vendor independent machine-to-machine communication in SMT Assembly 09.03.2020 | Page 13