

Minutes of the 9th The Hermes Standard Initiative Meeting

Date: 15st of November 2021

Venue: Productronica fair grounds room A32 & on-line @ Microsoft Teams

Minutes: Håkan Sandell, Chair

| Participating 27 (44%) companies in alphabetical order | | | |
|--|----------------------------|--|--|
| 4IR.UK British Systems (online) | MYCRONIC | | |
| 6TL Engineering GmbH (online) | OMRON | | |
| ASM Assembly Systems | OSAI (online) | | |
| ASYS | REHM | | |
| CKD | RG Elektrotechnologie | | |
| ERSA GmbH | SAKI | | |
| FAMECS | Scheid IT | | |
| Göpel electronic | SEICA / SEICA automation | | |
| Heller Industries (online) | SICK | | |
| IBL-Löttechnik (online) | SMT Thermal Discoveries | | |
| IPTE | SPEA S.p.A (online) | | |
| KIC | SYNEO (online) | | |
| KOH YOUNG | VISCOM AG | | |
| KULICKE & SOFFA (online) | | | |
| , , | | | |
| Initiative members 35 (56%) not being pre | esent in the meeting | | |
| ACHAT5 Engineering GmbH | KEYSIGHT | | |
| allSMT | kolb Cleaning Technologies | | |
| Besi | Magic Ray Technology | | |
| Bright Machines | MIRTEC | | |
| BTU | Nordson Asymtek & Matrix | | |
| CTI Systems | NUTEK | | |
| CTS | PARMI | | |
| CyberOptics | PEMTRON | | |
| Digitaltest GmbH | Rejoint | | |
| ECD | SEHO | | |
| EUNIL | SolderStar | | |
| EXELSIUS | Sonic Technology | | |
| FlexLink | TRI | | |
| GKG | UIC | | |
| Hanwha | ViTrox | | |
| ITW EAE | YJ LINK | | |
| JAPAN UNIX | YXLON | | |
| JOT Automation | | | |
| | | | |



Agenda of 9th The Hermes Standard (IPC-HERMES-9852) Initiative Meeting

| The Hermes Standard Initiative meeting @ Microsoft Teams + Productronica room A32 | | | |
|--|--|-------|--|
| Welcome Introduction of new initiative members Recap 8th Meeting in March 2021 Action list | Håkan Sandell Chair of the Initiative | 14:00 | |
| Status per company (optional) Status of implementation Learnings (technical / process /) | All participants | 14:20 | |
| Workgroup "Hermes Use-Cases" Status report, future direction The meeting decided to take this agenda point after "CFX-Hermes | | 14:30 | |
| Workgroup "Hermes test & validation" • Status report, next step | Christian Fritsch | 14:45 | |
| Workgroup "CFX – Hermes" ● Report from 2021 meetings, alignment with CFX v1.4 | Tom Marktscheffel ASM | 15:00 | |
| Technical issues & decisions - Version 1.3 Add "SendWorkOrderInfoReply" message Add "Route+Action" to relvant messages Add "Command" message Add "SubBoards" to relvant messages | Peter Sundström Forum moderator | 15:10 | |
| Future standardization process Report of HERMES-IPC MoU status | Håkan Sandell Chair of the Initiative | 15:50 | |
| Organizational issues & decisions • Election of next chair • Next meeting | Håkan Sandell Chair of the Initiative | 16:05 | |
| Wrap-up and end of meeting @ 16:30 | All participants | 16:20 | |



The Hermes Standard Initiative

A broad foundation across the entire industry assures global acceptance

| GKG cs GÖPEL | JAPAN UNIX | Nordson ASYMTEK | Scheid IT | SYSTECH |
|------------------|--|--|---|---|
| cs GÖPEL | | | | SISTECH |
| | JOT Automation | NUTEK | SEHO | TRI |
| st HANWHA | KEYSIGHT | OMRON | SEICA SEICA automation | uic |
| HAYAWIN | KIC | OSAI | Shenzhen HB | VISCOM |
| HELLER | KOH YOUNG | PARMI | SICK | ViTrox |
| HOLLY | kolb Cleaning Technologies | PEMTRON | SMT-Wertheim | YJ LINK |
| s IBL Löttechnik | KULICKE & SOFFA | REHM | SolderStar | YXLON |
| ILJIN | MAGIC RAY | REJOINT | SONIC | |
| IPTE | MIRTEC | RG Elektrotechnik | SPEA | and counting |
| | HAYAWIN HELLER HOLLY S IBL Löttechnik LIJIN IPTE | HAYAWIN KIC HELLER KOH YOUNG HOLLY kolb Cleaning Technologies IBL Löttechnik KULICKE & SOFFA ILJIN MAGIC RAY | HAYAWIN KIC OSAI HELLER KOH YOUNG PARMI HOLLY Kolb Cleaning Technologies IBL Löttechnik KULICKE & SOFFA REHM ILJIN MAGIC RAY REJOINT IPTE MIRTEC RG Elektrotechnik | HAYAWIN KIC OSAI Shenzhen HB HELLER KOH YOUNG PARMI SICK HOLLY kolb Cleaning Technologies PEMTRON SMT-Werthelm SIBL Löttechnik KULICKE & SOFFA REHM SolderStar ILJIN MAGIC RAY REJOINT SONIC IPTE MIRTEC RG Elektrotechnik SPEA |



| General Information | | Who | When |
|--|---|--------------------------------|--------|
| Presentation material & access | s to members area | | |
| All presented material can be do members area of the initiative ho hermes-standard.info/download/ | • | | |
| Introduction for new member | ers (November 15 th , 9:00 - 10:00 C | ET) | |
| | for new members of the initiative. | e included. | |
| The Hermes Standard Initiat | ive meeting (November 15st, 14:00 |) - 16:30 CET) | |
| WELCOME to all members! The initiative now consists of 62 manufacturer of vapor phase over | members. Members now include IBL | | |
| Status update per company | | | |
| Some of the present members shared their field experience and the need for more testing and clearly described use cases where clear. | | | |
| Setting the right customer expectations was mentioned as a success factor – Hermes board transfer is only one part of the factory puzzle. | | | |
| Workgroup "Test & validation" Motivation: Working Group Test & Verification Today's situation East induce sensions to testing the sundand, independing a required and plan for EW down approach To the least sensions to testing the sundand, independing a required and plan for EW down approach To the least sensions to testing the sundand, independing a required and plan for EW down approach To the least sensions to testing the sundand, independing a required and plan for EW down approach To the least sensions to testing the sundand plan for EW down approach To the least sensions to testing the sundand plan for EW down approach The least sensions to testing the sundand plan for EW down approach The least sensions to testing the sundand plan for EW down approach The least sensions to testing the sundand plan for EW down approach The least sensions to testing the sundand plan for EW down approach The least sensions to testing the sundand plan for EW down approach The least sensions to testing the sundand plan for EW down approach The least sensions to testing the sundand plan for EW down approach The least sensions to testing the sundand plan for EW down approach The least sensions to testing the sundand plan for EW down approach The least sensions to testing the sundand plan for EW down approach The least sensions to testing the sundand plan for EW down approach The least sensions to testing the sundand plan for EW down approach The least sensions to testing the sundand plan for EW down approach The least sensions to testing the sundand plan for EW down approach The least sensions to testing the sundand plan for EW down approach The least sensions to testing the sundand plan for EW down approach The least sensions to testing the sundand plan for EW down approach The least sensions to testing the sundand plan for EW down approach The least sensions the least sensions to testing the sundand plan for EW down approach The least sensions the least sensions to testing the sundand plan for EW dow | Christian Fritsch (SICK) concluded that the work group had no activity since March. He encouraged members to comment on the draft material available in the forums. | Christian Fritsch (SICK) | Open |
| Workgroup "CFX - Hermes" | | | |
| standards closer was presented. support new routing concept in the The meeting also reflected over and GetMagazineData features a | the adoption of GetWorkOrderData added in CFX since last meeting. ned by at least three companies and | Tom Marktscheffel (ASM) | Closed |



| Workgroup "Hermes Use-Cases" | | |
|--|--|------|
| Tom Marktscheffel (ASM) presented use cases discussed in the workgroup and a brief overview of the pending suggestions for updates to the Hermes standard. Tom Marktscheffel | | Open |
| The meeting decided (24/-) to let the workgroup release the re-worked "Hermes Use Cases" document, now called "Hermes Best Practice", as soon as possible after proof reading. | now called "Hermes Best Practice", | |
| Technical issues & decisions | | |
| Following updates to the standard where presented by respective initiator and discussed. All was accepted by more than 50% of the present members. | | |
| Add "SendWorkOrderInfoReply" message (23 yes/ 0 no) Add "Command" message (24 yes/ 1 no) the no vote desired a more detailed use case description Add "Route+Action" to relevant messages (18 yes/ 1 no) it was suggested "Hermes Best Practice" should recommend to keep routes only as long as needed Add "SubBoards" to relevant messages (24 yes/ 1 no) the no vote desired a data compression for barcodes, the meeting concluded this to be a good idea but that it can be optional and added later | Peter Sundström (forum moderator) | |
| The combined changes will result in new version 1.4 and corresponding use cases added to "Hermes Best Practice" | | |
| Future standardization process & IPC collaboration | | |
| No workgroup meeting since 8 th initiative meeting. | Håkan | |
| Håkan Sandell informed that the IPC CFX-roadmap page has been replaced by the QPL list and the task of creating a Hermes roadmap per supplier was no longer investigated. | Sandell (Chair) | Open |
| Next meeting location & meeting host | | |
| The initiative decided (14 yes/0 no) to hold the next meeting on-line on Wednesday the 1st of June 2022. The draft of the agenda will be sent out 8 weeks before the meeting. | Håkan Sandell (Chair) | Open |
| Election of new chair | | |
| No company had volonteered to take the responsibility at the time of the meeting. Current chair accepted to remain until next meeting. | Håkan Sandell | Open |
| Meeting decided (25/1) that Mycronic remain chair until 10 th meeting and have a new election then. | (Chair) | |



Overview of action items as discussed in the meeting



Wrap-up of The 9^{th} Hermes Standard Initiative Meeting $\mbox{\sc Open activities}$

| Op | en activities | Lead | Due |
|----|---|--------------------------|----------|
| 1. | Promote new Hermes version 1.4 to IPC -HERMES -9852 | Håkan Sandell (Mycronic) | Dec 2021 |
| 2. | Hermes Use case workgroup, continued work | Tom M. (ASM) | Jun 2022 |
| 3. | Hermes Use case workgroup – publish "Hermes Best Practice" | Tom M. (ASM) | Dec 2021 |
| 4. | Test & validation workgroup, continued work | Christian F. (SICK) | Jun 2022 |
| 5. | Prepare MoU to convert Hermes Initiative into IPC standardization process | Håkan Sandell (Mycronic) | Jun 2022 |
| 6. | New chair for The Hermes Standard Initiative | Håkan Sandell (Mycronic) | Jun 2022 |
| 7. | Organize 10th online meeting 1st June 2022 | Håkan Sandell (Mycronic) | Jun 2022 |

The Hermes Standard for vendor independent machine-machine communication in SMT Assembly.

09.12.2021

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