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Improved development process during voting period：
The temporary Informal Industry Working Group for the US NP under TA14 to support common charging interoperability

Agenda

- Informal Industry Working Group
- TC100/2455/NP under TC100/TA14
- Observations

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IEC **Informal Industry Working Group (IIWG) - Proposal**

- Background
  - Urgent market need for international standard
    - mobile devices and accessories supporting USB Type-C and USB PD 2.0 coming to global markets from 2015 with increasing mainstream adoption
    - industry-led standard needed to provide implementation guidelines to facilitate interoperability of products coming to market
  - Aggressive schedule required
    - to meet market need, target CDV within 9 months, IS publication within 18 months
    - standard will also be important contribution to global regulatory/standards efforts actively considering common charging topics
- Proposal for IIWG
  - to achieve aggressive schedule, discussion to progress the work was needed during the NP ballot and processing period
  - since no official IEC project team yet and broader industry discussion was desired, a temporary Informal Industry Work Group was proposed by USNC members
  - outcome of IIWG discussion to be contributed to new PT after NP ballot approval
  - proposal was supported by TA14 officers, TC100 Secretariat, IEC CO, USB-IF, and NP PLs

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TC100/2455/NP under TC100/TA14

- Proposed IS
  - Identification and communication interoperability method for external DC power supplies used with data-enabled mobile computing devices
- Proposed Scope
  - interoperability guidelines for external DC power supplies used with mobile computing devices that implement USB Power Delivery 2.0 (USB-PD 2.0) with the USB Type-C Cable and Connector specifications
  - specifies data format and objects for identity, design and performance characteristics, operating status of external power supply using USB-PD spec
  - application - mobile devices up to 100 watts, focusing on notebook computers, tablets, smartphones and other related devices
- Purpose, Justification
  - Goal: increase external power supply re-usability, support consumer convenience, while maintaining product reliability, safety and regulatory compliance
  - provide requirements for application of latest USB specifications expected to be broadly adopted in global markets starting from 2015
  - help reduce poorly designed aftermarket substitutes which may affect the operation of mobile devices or consumer safety

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Details on temporary IIWG for TC100NP

- IIWG structure
  - Group coordinator: ITI (US IT industry association)
  - Participation: open to TA14 experts, global industry experts interested in the TC100NP and members of relevant industry groups (USB 3.0/USB 2.0 Promoter Groups, USB-IF, ITI, DE, JEITA)
  - IIWG members: over 40 global participants from US, Japan, Korea, Europe
  - Discussion structure
    - Technical discussion leaders: TC100NP PLs, USB-IF reps
    - Small Team: reps nominated from each region
    - Coordinators: ITI reps and TA14 officers
- Establishment of discussion rules
  - No formal legal agreements
  - Individual participation agreement on confidentiality and antitrust guidelines, IEC IPR policy and USB promoter groups IPR policy
  - Discussion limited to technical scope of NP proposal
  - No discussion on national body positions related to NP ballot; no usage of IEC or TC100 mailing lists or collaboration tools
- Discussion Logistics
  - All members: participate in email discussion led by discussion leaders
  - Discussion leaders and Small Team members: scheduled phone call discussions
  - Each region: free to coordinate local discussions for input to Small Team and working group
  - One face-to-face meeting: hosted by JEITA in Tokyo – over 20 attendees in person & remotely

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IEC   **Observations on IIWG for TC100 NP**

- IIWG enabled broader global industry experts to discuss key areas for TC100NP during the "waiting period" for NP ballot and processing
- Outcomes from IIWG discussion will support the new PT and faster completion of CD draft
  - high-level requirements related to USB-PD discussed for TC100 NP, will be considered by the USB promoter groups for enhancements to USB specs
- Some challenges experienced to start IIWG
  - time to establish IIWG structure etc. – no existing IEC or TC100 models
  - time to establish participation rules and confirm individual agreements
  - time to establish discussion topics and the different channels (emails, phone calls, local discussions)
  - normal challenges for starting new groups before productive discussions begin
- Face-to-face meeting was very beneficial
  - to review and discuss the technical areas, get consensus on key discussion topics and plan for contributions to the new PT

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IEC   **Observations on IIWG for TC100 in general**

- TC 100 has been making efforts for efficient and speedy standardization in the area of audio, video and multimedia technology, so-called fast moving technology.
- Because IIWG this time was so effective and beneficial for a new project at TA14, the questions for AGS member are
  - Consider concept for IIWG for not only to TA14 but also for other projects in TC100
  - Consider any inputs from other TAs (eg. TA12 62087 projects)
  - Discuss not only to apply IIWG for NP voting period but also consider any later stages such as CD and CDV period if it is desired (could also be ad-hoc under TA, inviting non TC100 members as guests)

  - In order to make TC100 special rule there are three options:
    1) Run a few projects in TC100 and form a task team to try to make structures, rules and discussion logistics as a results of additional projects
    2) wait for TC100/2455/NP be published and consider learnings at any later stages then form a task team to try to make structures, rules and discussion logistics
    3) may discuss QP to SMB at next AGS meeting if needed

- For reference : ISO IEC_Directives_Part_1_Consolidated JTC 1 Supplement 2014 JA.1.1 Discussion during ballot period

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Thank you and any suggestions

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