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# Project Discussion: Enabling Advanced Cooling in OpenRack

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# OCP Announces Advanced Cooling Solutions Sub Project

Friday, July 06, 2018 - Posted by [Bill Carter](#)

# Advanced Cooling Solutions: Charter Project Goal

The project shall focus on standardization and definition of critical interfaces, operational parameters, and environmental conditions that enable a non-proprietary, multi-vendor supply chain of liquid-cooled solutions.

[ACS Charter](#)

# Advanced Cooling Solutions: Work Streams

Architecture Harmonization

Cold Plate

Immersion

Door Heat Exchanger

# Advanced Cooling Solutions: Work Streams

Architecture Harmonization – Consistency, materials, DC interfaces

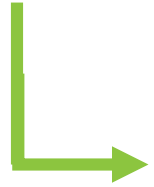
Cold Plate

Immersion

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# Advanced Cooling Solutions: Work Streams

Architecture Harmonization – Consistency, materials, DC interfaces,



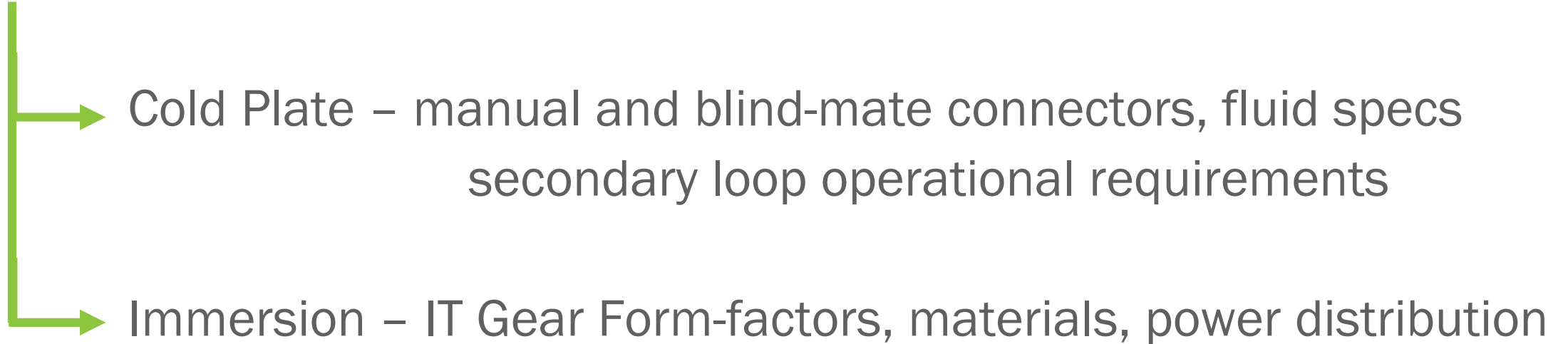
Cold Plate – manual and blind-mate connectors, fluid specs  
secondary loop operational requirements

Immersion

Door Heat Exchanger

# Advanced Cooling Solutions: Work Streams

Architecture Harmonization – Consistency, materials, DC interfaces,

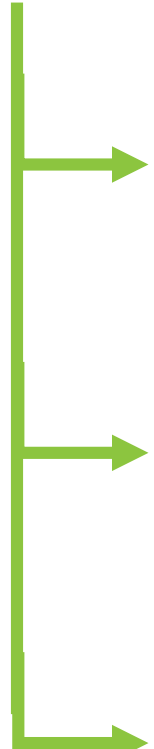


Door Heat Exchanger



# Advanced Cooling Solutions: Work Streams

Architecture Harmonization – Consistency, materials, DC interfaces,

- 
- Cold Plate – manual and blind-mate connectors, fluid specs  
secondary loop operational requirements
  - Immersion – IT Gear Form-factors, materials, power distribution
  - Door Heat Exchanger – Active or Passive, Front/Rear,  
Physical interfaces, Air/liquid requirements

# Advanced Cooling Solutions: Leads

## Cold Plate:

Austin Shelnutt    DELL    austin.shelnutt@ocproject.net

## Immersion:

Rolf Brink    Asperitas    rolf.brink@ocproject.net

## Door Heat Exchangers:

Jacob Na    Facebook    jacob.na@ocproject.net

# Advanced Cooling Solutions: How to Get Involved

Join the mailing list:

<http://lists.opencompute.org/mailman/listinfo/opencompute-acs>

Project Wiki:

[https://www.opencompute.org/wiki/Rack\\_%26\\_Power/Advanced\\_Cooling\\_Solutions](https://www.opencompute.org/wiki/Rack_%26_Power/Advanced_Cooling_Solutions)









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