

SFC SF Offloads

draft-kumar-sfc-offloads-00

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SFP Optimization Method – Honolulu Recap

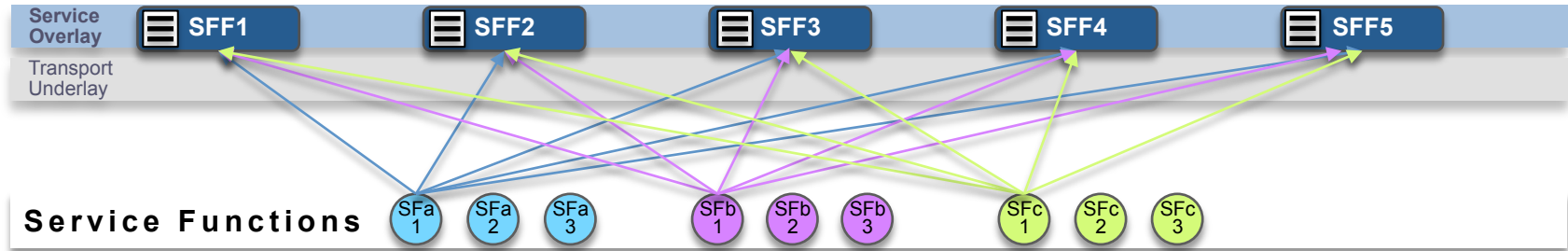
Simple Offloads in two stages – draft-kumar-sfc-sfp-optimization-01

- Simple Offloads
 - ‘Offload’ directive (Yes or No) + ‘Action’ (Permit or Deny)
- Stage1: SF Offloads
 - SFs request SFFs to not steer further packets on a flow
- Stage2: SFF Offload propagation
 - SFFs propagate offload directives upstream to other SFFs

SFP Optimization Method – Honolulu Recap ...2

Distributed SF delivery

SF sharing across SFFs & SFCs,
leads to **distributed SF delivery** effect,
with Simple Offloads



Summary Of Changes

Based on very positive feedback at Honolulu

- Split the original draft into two
 - Stage1: *draft-kumar-sfc-offloads-00* (new)
 - Stage2: *draft-kumar-sfc-sfp-optimization-02* (original[⌘])
- Address comments
 - Feedback at open-mic and offline conversations/email
- Use NSH to show the offload bits
 - Both for MD-Type1 and MD-Type2

⌘ not revised yet

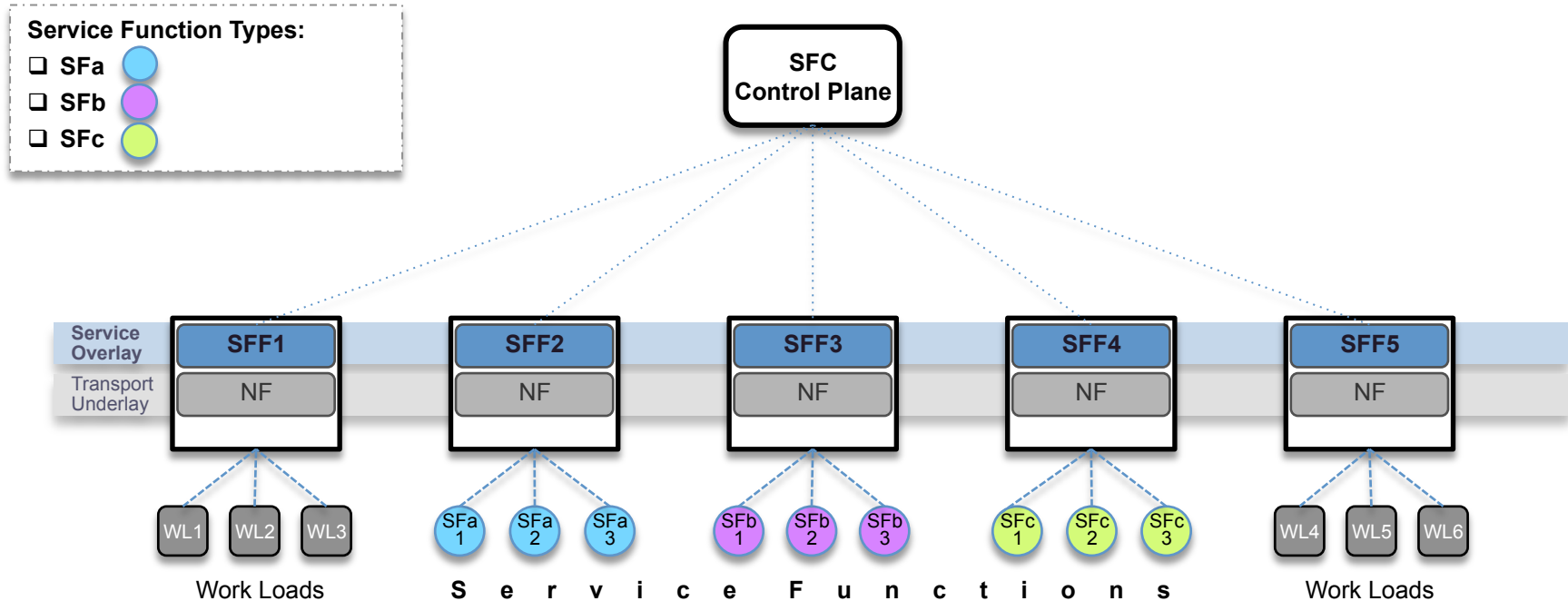
Next Steps

- Request WG adoption of the *-sfc-offloads-* draft
- Update and leave the *-sfc-sfp-optimization-* draft as informational (no adoption)
- Request continued review and feedback on the succinct new draft

Thank You!

SFC Architecture

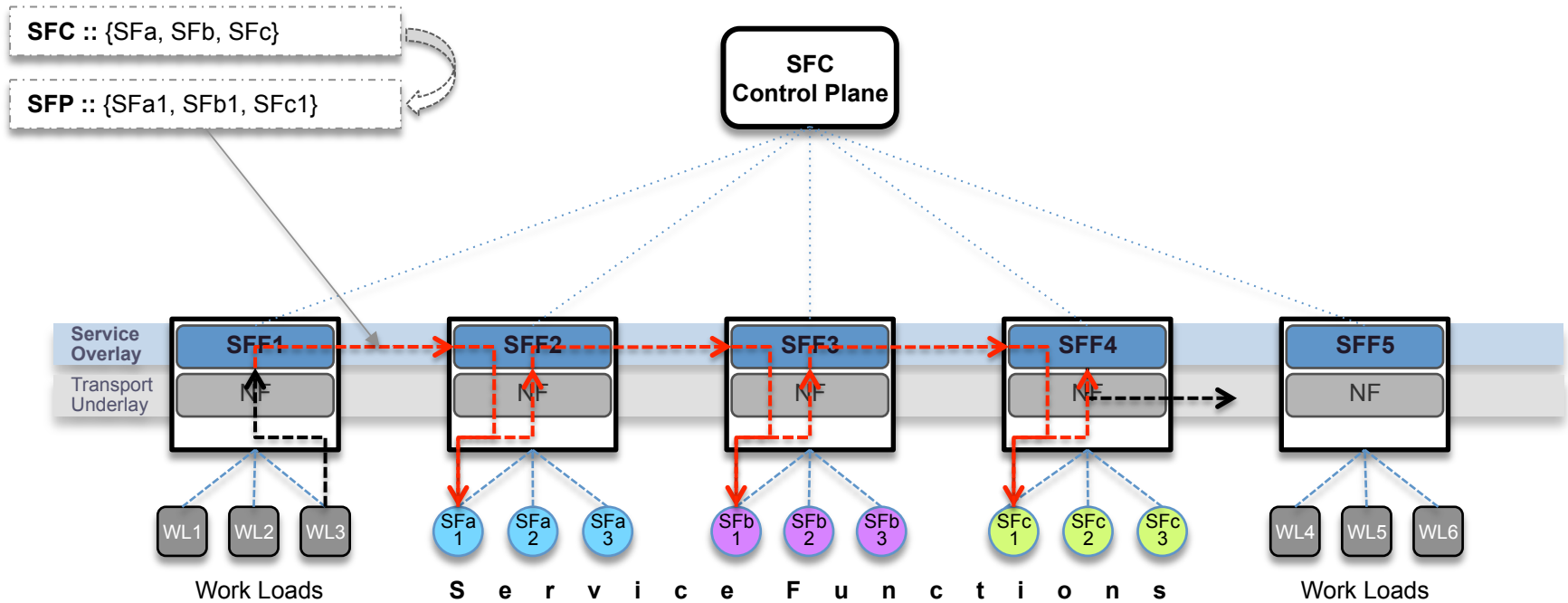
Example diagram with workloads and SFs



SFC Architecture

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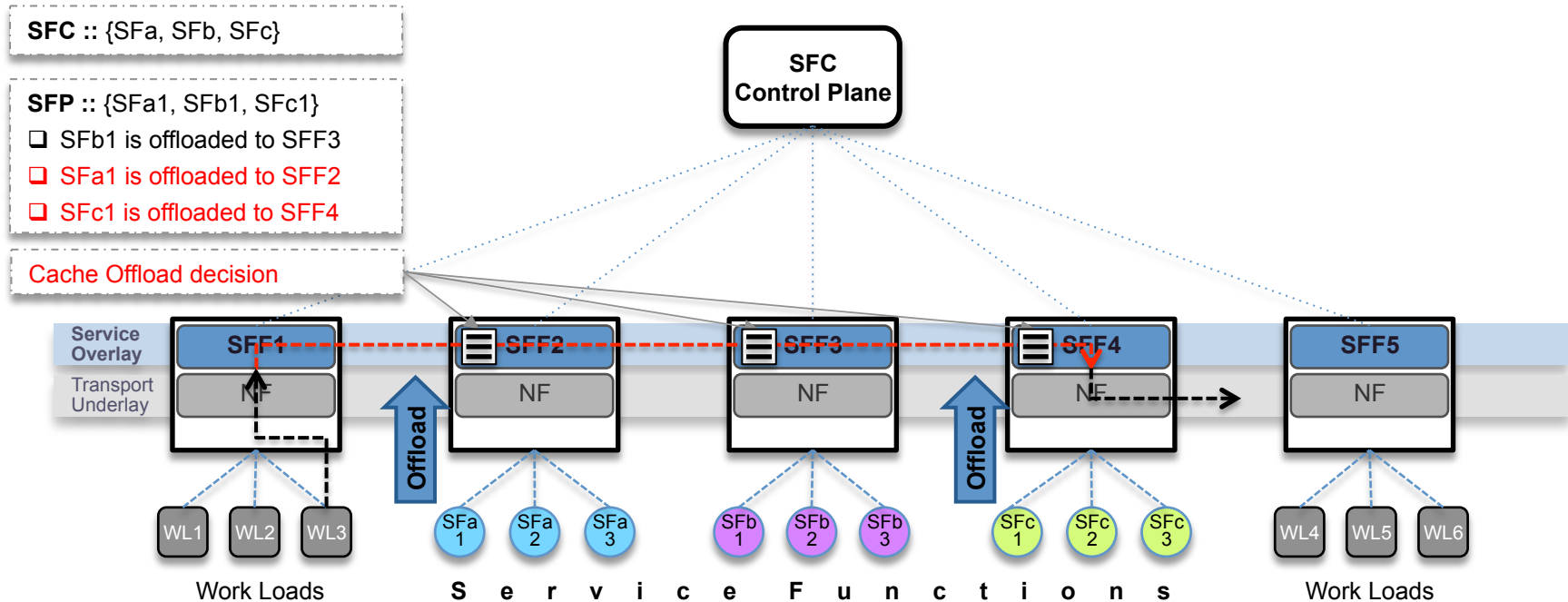
Example diagram with workloads, SFs, SFC and SFP



Simple Offloads, Stage1

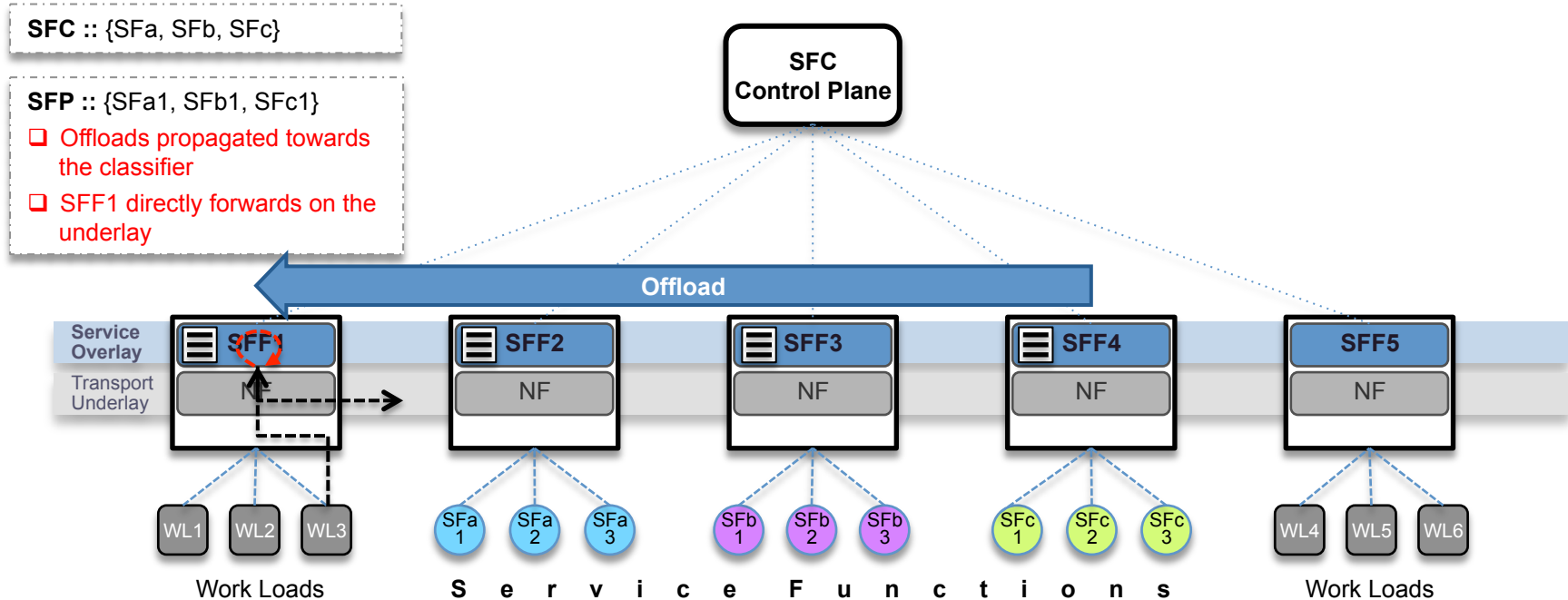
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SFs offload service delivery to SFFs, at flow granularity



Simple Offloads, Stage2

Optimum SFP



Why not classify and bypass SFs, instead ?

Achieve similar effect through SFC Classifiers or Control Plane

