AGENDA

- EWG Charter
- OFA Process
- EWG – OFED releases last year
- EWG Roadmap
- How to contribute
EWG Charter

- The charter of the EWG working group is to provide enterprise ready distributions of the Open Fabrics code (OFED) for Linux.
  - That can be used (in whole or in part) to help enable in-box support of OFA S/W in Linux* distros
  - That can be used directly by customers on various Linux distro kernels that want the latest upstream code that is not yet in the Linux distros
  - That can be used as a basis for vendor provided value-add OFED derivatives
  - That is used for interoperability testing and OFA logo program
  - That is used for InfiniBand® Trade Association (IBTA) interoperability testing
OFED PROCESS

- No major process changes over the last year.
- Current Process for OFED development
  - OFA developers develop code and submit it upstream to kernel.org and the OFA user-space package maintainers via the linux-rcma list.
  - OFED kernel code is based on the upstream kernel code, with testing starting during the RC stage of kernel development.
  - OFED user-space packages are based on up-stream OFA user-space packages.
  - EWG adds backport patches to allow the upstream kernel code to run on various Linux distro kernels.
  - EWG adds any new experimental features that are not yet upstream but people want to test or use with the rest of OFED.
  - EWG adds cherry picked bug fixes from newer kernels to fix bugs discovered after the upstream kernel is released.
  - Package with all of the individual maintainer user-space packages, build and install scripts, and release notes.
  - Test the OFED RCs; Done by both the individual HW vendors and also by the OFA IWG.
  - Once all the critical bugs are resolved, release the OFED package via the OFA website.
OFED Releases since last year

**OFED-3.18**
- Moved kernel base to kernel.org 3.18
- Added support for new distros, RHEL* 7.1
- Added OFI 1.0 (libfabric) from the OFIWG
- Mellanox ConnectX4* ready
- Updated user-space packages and cherry picked bug-fixes from later upstream kernel.org
  - dapl-2.1.5
  - fabtests-1.0.0
  - libfabric-1.0.0
  - librDMAcm-1.0.21
  - mstflint-4.0.1-1.42.g0d3b372
  - infiniband-diags-1.6.5
  - libibmad-1.3.12
  - libibumad-1.3.10.2
  - libiwpvm-1.0.1
  - libmlx5-1.0.2
  - libocrdma-1.0.5
  - mstflint-3.8.0-1.27.gf3d39b6
  - opensm-3.3.19
  - perftest-2.4-0.8.gd3c2b22
  - srptools-1.0.3

* Other names and brands may be claimed as the property of others
OFED Releases since last year

- **OFED-3.18-1**
  - Added support for new distros, RHEL* 6.7, SLES* 11 SP4
  - Added OFI 1.1 (libfabric) from the OFIWG
  - Updated user-space packages and cherry picked bug-fixes from later upstream kernel.org
    - -libocrdma-1.0.6
    - -perftest-3.0-0.1
    - -dapl-2.1.7
    - -infiniband-diags-1.6.6
    - -infinipath-psm-3.3-7_g05f6f14_open
    - -libiwpm-1.0.3
    - -libfabric-1.1.1
    - -fabtests-1.1.1
    - -ibacm-1.1.0
    - -libiwpm-1.0.3rc1
    - -mstflint-4.1.0-1.45.g1d75d01
OFED Releases since last year

- **OFED-3.18-2 (in process)**
  - Added support for new distros, RHEL 7.2, SLES 12 SP 1
  - Added OFI 1.2 (libfabric) from the OFI WG
  - Updated user-space packages and cherry picked bug-fixes from later upstream kernel.org
WHAT’S NEXT ? OFED-4.6 OR 4.7

- Lots of upstream activity in progress on the linux-rdma list.
  - RoCE V2
  - Intel® Omni-Path driver
  - New Intel® provided iWarp (i40) driver
  - Many kernel updates to isert, srpt, NFS/RDMA
  - Better virtualization support in IPoIB
  - And more…..

- Most of this is likely for kernel.org 4.6 and/or 4.7

- Thus, next major OFED will likely target 4.6 or 4.7
  - Depending on when most of this stuff gets upstream

- Proposed distro support for latest RHEL 7.x (7.1 and 7.2) and SLES 12 and SLES 12 SP 1

- Can we drop support for RHEL 6 and SLES 11 kernels ?

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IF YOU WANT TO HELP:

- Developing code:
  - Including back-ports in Linux
  - Reviewing code submitted to Linux kernel/libs
- Doing QA and testing
- Performance tuning
- Sending patches and comments to the mailing lists:
  - OFED for Linux: ewg@lists.openfabrics.org
  - General Linux development: linux-rdma@vger.kernel.org
  - OFI WG Working Group: ofiwg@lists.openfabrics.org
  - OFV WG Working Group: ofvwg@lists.openfabrics.org
  - Maintainers and git trees: http://www.openfabrics.org/downloads/MAINTAINERS
- Participate in EWG meetings
- Opening bugs in Bugzilla (http://bugs.openfabrics.org/)
  - When opening a new bug you can choose OpenFabrics Linux
12th ANNUAL WORKSHOP 2016

THANK YOU
Bob Woodruff, Software Engineering Manager
Intel® Corporation