



# Intel® Data Plane Development Kit (Intel® DPDK)

Tieto Support Offerings

Intel® DPDK support

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# Tieto

## Our World

- 18 000 IT and R&D professionals in close to 30 countries
- 7 000 Telecom professionals
- Customers on all continents
- One of the leading IT service companies in Northern Europe and global leader in selected segments. #1 Telecom R&D in Europe, top 3 in the world
- Expertise in Vertical Industries (Telecom, Media, Forest, Energy, Banking, etc.)
- Net sales approximately EUR 1.713 billion
- Listed in NASDAQ OMX, Helsinki and Stockholm exchanges
- Founded in 1968.



# Capture the Connected World!

Networks & Clouds

Mr Same Guy



Mobile Services

My Service Experience

Mobile Devices

Mobile Solutions

My Device  
My Channel

Value Networks



Enterprise systems

Telecoms

Digital World of ICT and Business Processes

Smart Products

Assets with Sensors & Tags

Physical World with Internet of Things



# Customer examples

Main Network R&D customers in blue

Ericsson

Nokia Siemens Networks

Alcatel-Lucent

EADS

Intel

Cassidian

Nokia

Sony Ericsson

ST Ericsson

Samsung

LG

3M

Bosch

BMW

Continental

Daimler

Delphi

Dräger Medical

Ford

Finish Press

Intergraph

Mercedes-Benz

Sirona

Rohde & Schwarz

SAAB

SMA

Weinmann

ZE

Brusa



# Network R&D area of expertise

"Mission statement Network R&D"

## System Architecture



Outsourcing / Out tasking

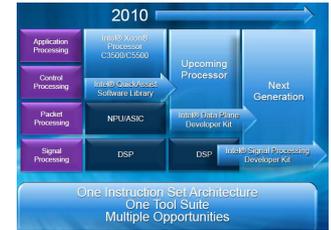
R&D Product Responsibility

# TEMS Challenges

- Performance & characteristics requirements on network equipment are drastically changing to be able to handle the traffic explosion happening in the network now
- Innovative thinking and a re-consideration of existing architectures is a must to seize market share opportunities
- How to select future proof technologies that will position products as winners is vital to competitiveness



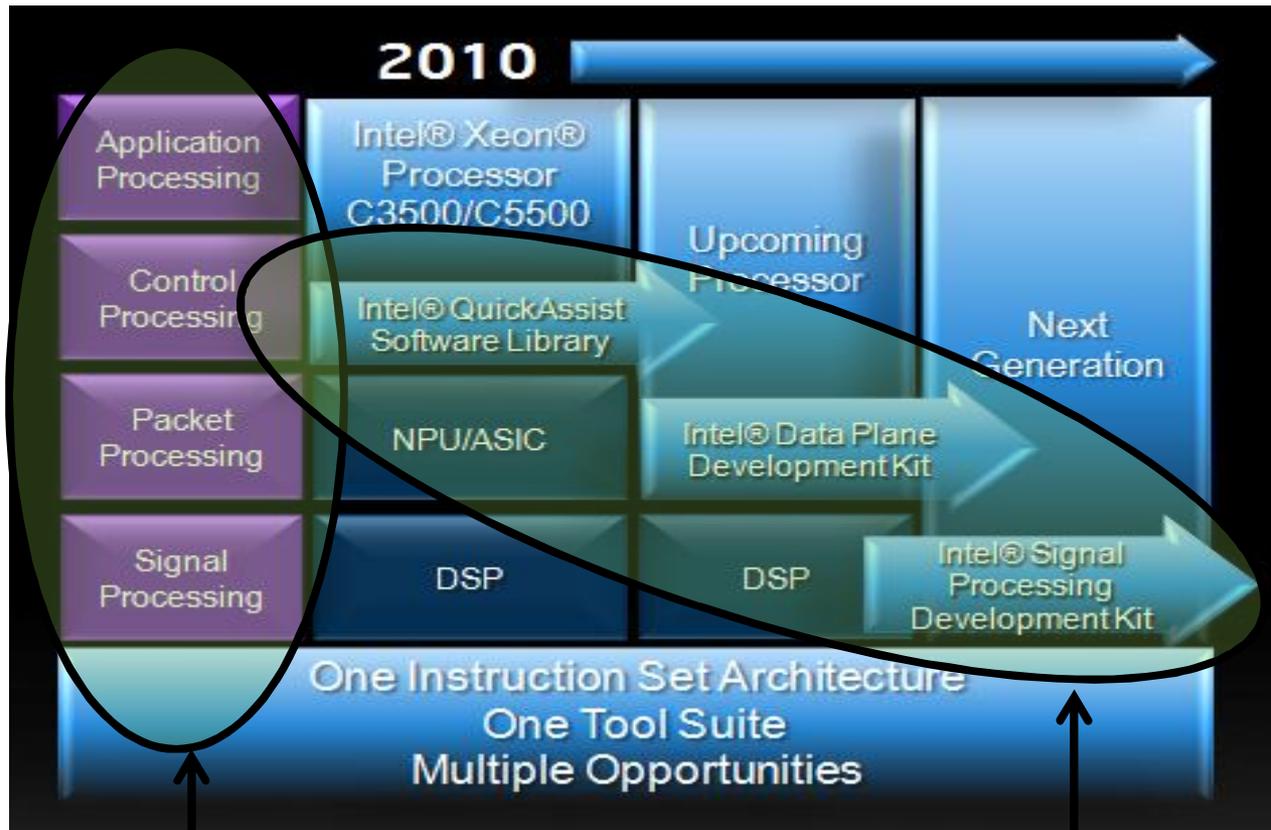
# Intel® DPDK opportunities



- Consolidate your applications into one common **future proof** HW platform
- Harness **Multi core** technology for building new differentiating products
- Provide **packet processing** technology for the success of any high performance product
- **Virtualization** will be a key technology for cost efficient migration of legacy systems
- Provide the infrastructure for **scalable pay-as-you-grow** solutions
- Serve as the foundation for **cloud** solutions
- Selecting Intel Silicon and utilizing the Intel® DPDK will give your product:
  - A platform guaranteed to continue providing you with the latest technology advances for the future
  - The processing power to handle any type of application in both control and user plane using the same HW platform
  - Verified world class virtualization enabling technologies
  - A huge eco system of developers, tools and products to boost your R&D operations



# The Perfect Match: Tieto R&D & Intel® DPDK



Tieto Network R&D Area Expertise

Tieto Intel Expertise

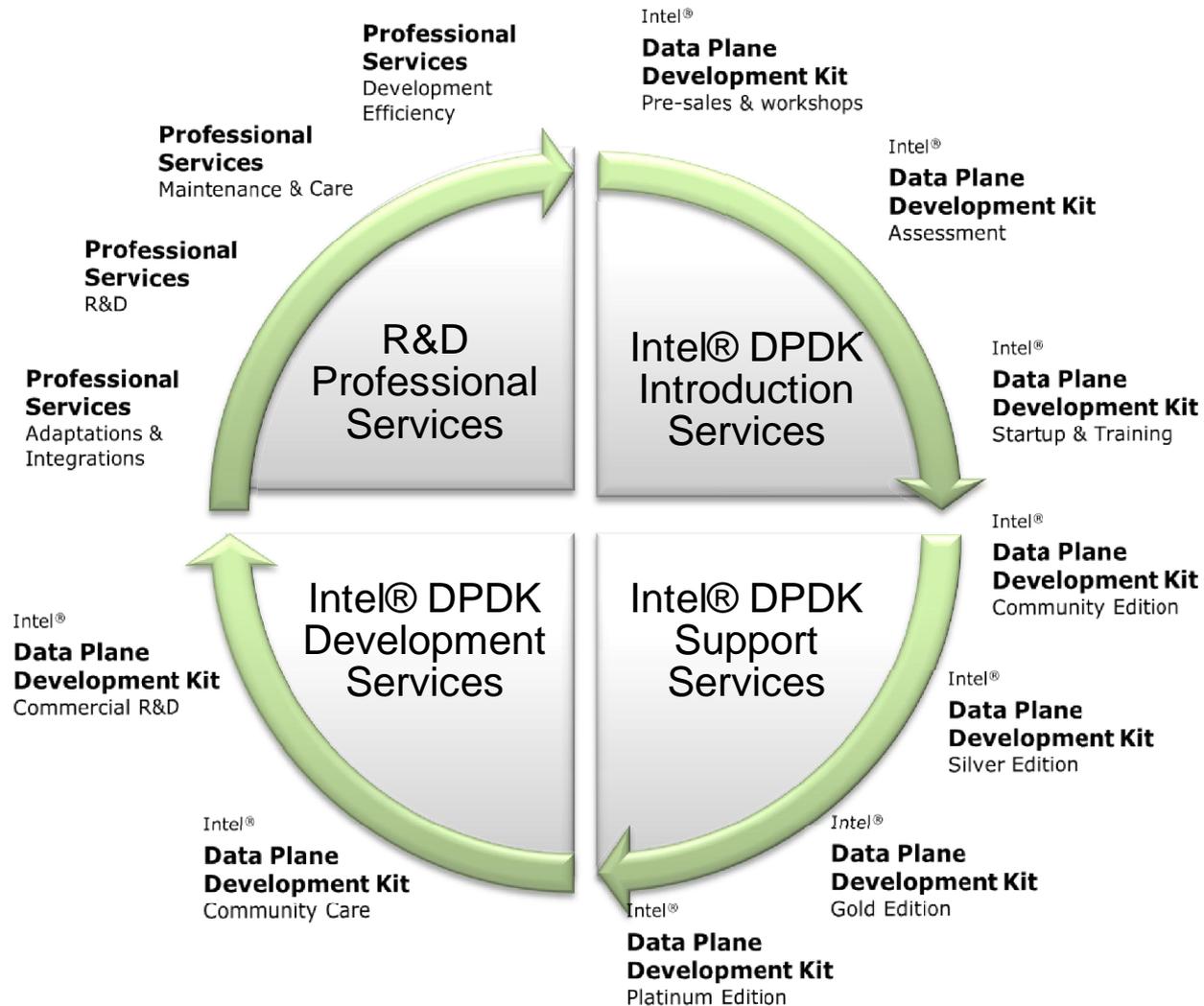


# Platform consolidation offering

- Challenge
  - Accelerated technology evolution. Is the R&D department focusing on the right things?
  - Application features are coming too late to seize full market potential due to slow release cycles.
  - How to break free of legacy platforms?
  - The technology needed is available but how to get there?
- Solution
  - Tieto can provide the services to push your product into the future while your R&D can maintain full focus on core business.
  - Tieto has the expert know-how to ensure that your platform evolution is taking advantage of the latest technologies and that your products' core characteristics are maintained in parallel.
  - Tieto can also cost efficiently take care of your legacy platform development and maintenance to allow you to focus your own R&D investments in innovation
- Value
  - Keep velocity in core business processes during migration to meet TTM requirements
  - Boost innovation by using Tieto's market understanding and know-how
  - Access to proven, world-class expertise in multi core packet processing technologies



# Offerings



# Intel® DPDK Introduction Services



- Pre-sales support & customer workshops
  - Inform about Intel® DPDK and how to make best use of it
  - Fixed price per day + travel costs.
  - One trainer



- Assessments
  - Assessment of customer product R&D concerning Intel® DPDK.
  - Formulate value proposition for introduction of Intel® DPDK.
  - Intel® DPDK adaptation and integration action list and effort estimate
  - Interviews and documentation of audit
  - Fixed price.
  - 2 auditors, one full working week effort



- Startup & Training
  - Startup of Intel® DPDK in customer R&D teams.
    - HW setup
    - Design & Test environment support
    - Time & material based on hourly rates + travel costs
  - Training of customer personnel
    - Fixed price training modules + travel costs.
    - One trainer



# Intel® DPDK Support Packages



- 24/7 Service Desk
  - 4 hours response time,
  - 24 hours problem resolution



- 8/5 Service Desk
  - Office hours
  - 4 hours response time,
  - 1 week problem resolution



- 8/5 Service Desk
  - Office hours
  - 4 hours response time,
  - 48 hours problem resolution
- Incident and problem management
- Error corrections
- Development support on request
- Problem resolution time based on incident severity



# Intel® DPDK Development Services



- Intel® DPDK Commercial R&D
  - Production of correction releases of a commercial branch
    - Fault corrections, release building and release testing
    - SLA levels for fault corrections – dependency to Intel® DPDK development
    - Automated release testing suites for Intel® DPDK
    - Fixed price per agreed fault amounts and SLA levels
  - Feature development for customer commercial branch
    - Fixed price on given specifications



# Tieto Professional Services



- Adaptation and integration
  - Intel® DPDK adaptation and integration into customer's product R&D
  - Time & material based on hourly rates + travel costs



- Full blown R&D of customer product
  - Time & material based on hourly rates + travel costs
  - Fixed price on given specifications



- Efficiency Consulting
  - Organization and Process Development
- Tools & Environments
  - Development, Adaptation, Integration, Training, Deployment
- Development Platform as a Service
  - Operation, Maintenance, Support



- Maintenance & Care of customer product
  - Time & material based on hourly rates + travel costs
  - Fixed price on estimated volume of faults and trouble tickets



**Knowledge.  
Passion.  
Results.**

**Tieto IDPDK**

Global Strategic Accounts  
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