



connect integrate evolve

SPI

Presentation to
OEB Smart Meter Initiative
Sep 17/04

Purpose of the Presentation

Show how an existing network infrastructure can be leveraged to

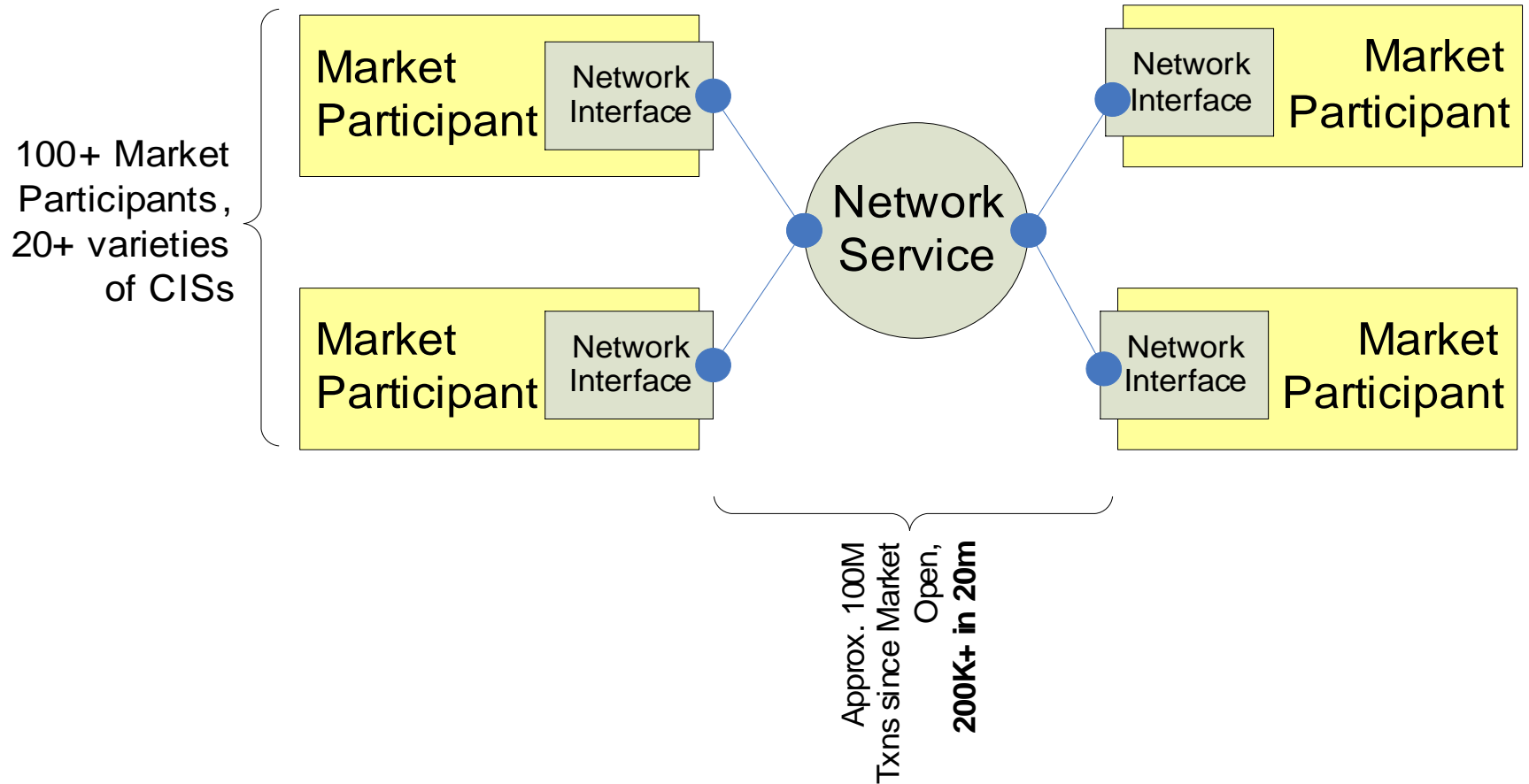
Minimize costs to implement Ontario's Smart Metering Initiative

Reduce time to market and risks associated with testing and integration

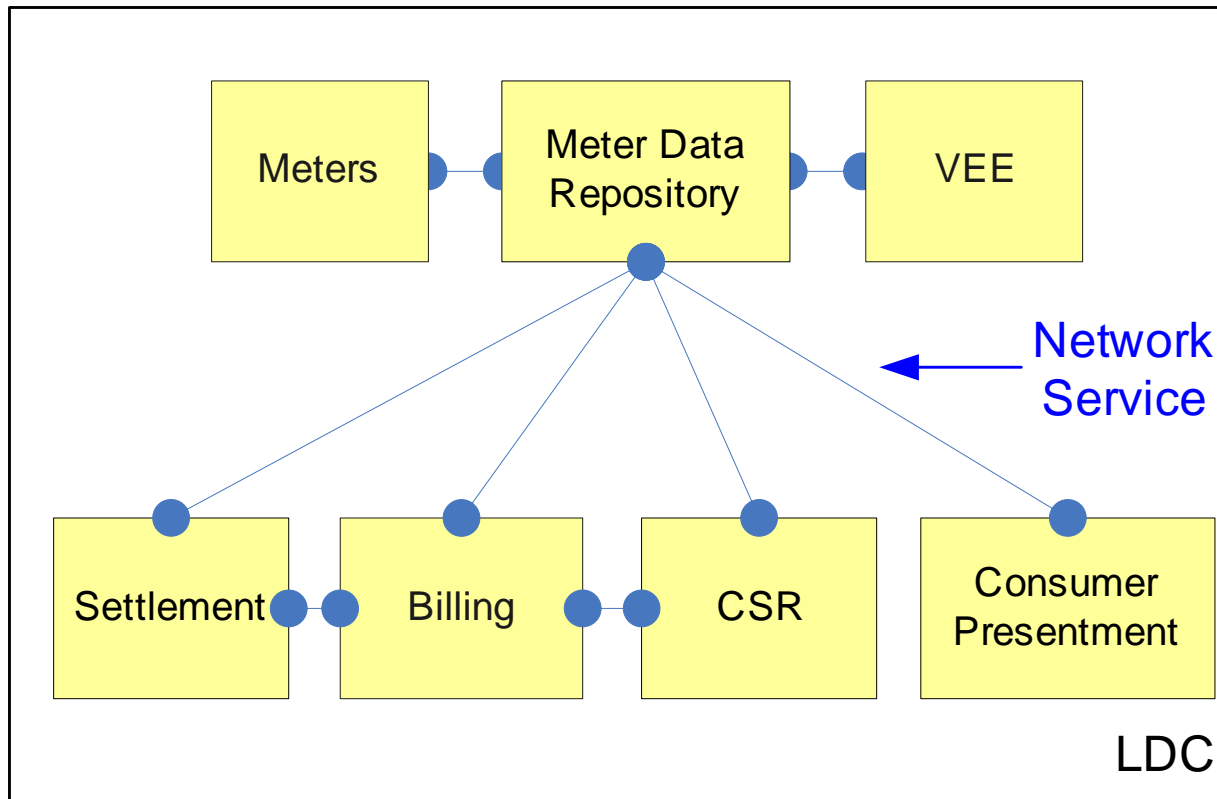
Provide the flexibility to use different vendors or collaborative arrangements

Reliably transport large volumes of data generated by smart meters

Ontario's Existing Network Infrastructure



Expanding the network service for SMI



Benefits of expanding the existing network:

1) **Minimize Costs**

- Leverage an existing infrastructure investment by market participants
- Reduce integration costs by transporting data from multiple sources to the CIS in a manner they currently recognize

2) **Reduce time to market and risks**

- Existing network infrastructure is in place, has been tested and can minimize development and implementation requirements
- Has tracking, authentication, security that FTP doesn't and helps ensure integrity of data and sender

3) **Provide a choice of vendors, collaboration**

- By placing business functions on the network, market participants can choose to selectively collaborate or outsource based on their business preferences
- Moving data reliably is paramount to fulfilling Minister's directive of daily data presentment

4) **Transport Large Amounts of Data**

- Network infrastructure is robust and reliable, hosted in a class A data centre, Sun Solaris server farm, 99.98% up-time, ~100 million transactions. +200K easily handled in a 20 min. burst

Ontario's experience:

The network infrastructure is trusted to:

- a) Ensure data is consistently formatted
- b) Transport data securely
- c) Authenticate parties
- d) Monitor and acknowledge delivery of data

Agreement on Technical Standard Among Vendors **is** possible: All CIS vendors who serve LDCs in Ontario implemented the standards providing choice among vendors and encouraging competition.

Existing infrastructure currently handles interval and non-interval meter reads for 973,000 meters.

Projecting the network infrastructures' highest production load to-date realizes an effective 24 hour transactional load ability of over 14 million transactions/day.



connect integrate evolve

Thank you

Questions?