

Web Services Workshop
Updates on Web Services Initiatives

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for LONMARK International

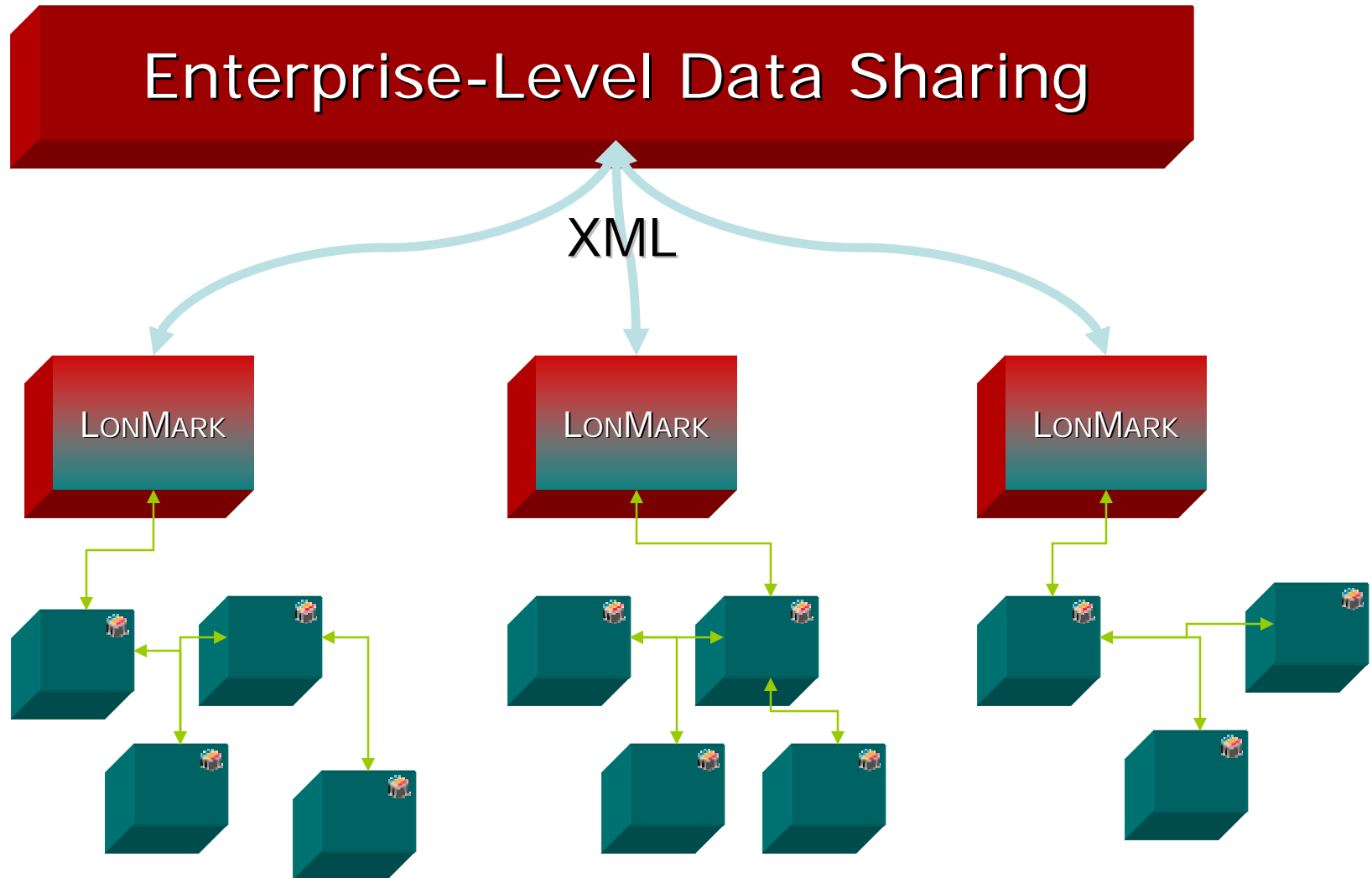
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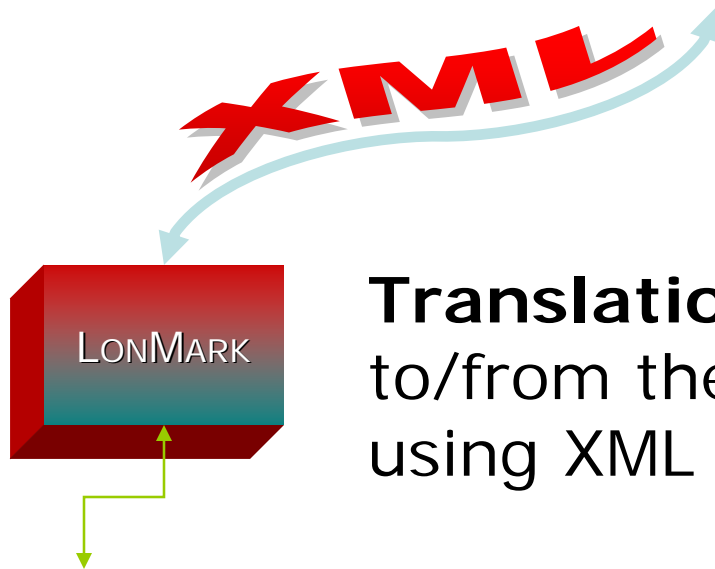
- Eleven-year-old industry association.
- Non-profit corporation.
- Governed by independent board of directors.
- Over 350 member companies worldwide.
- Promotes the LONMARK[®] standard through marketing activities and certification programs.
- Marketing resource for members to promote their products and services.
- Tested and certified around 700 devices and controllers.

LONMARK: Enterprise-Level Data Sharing

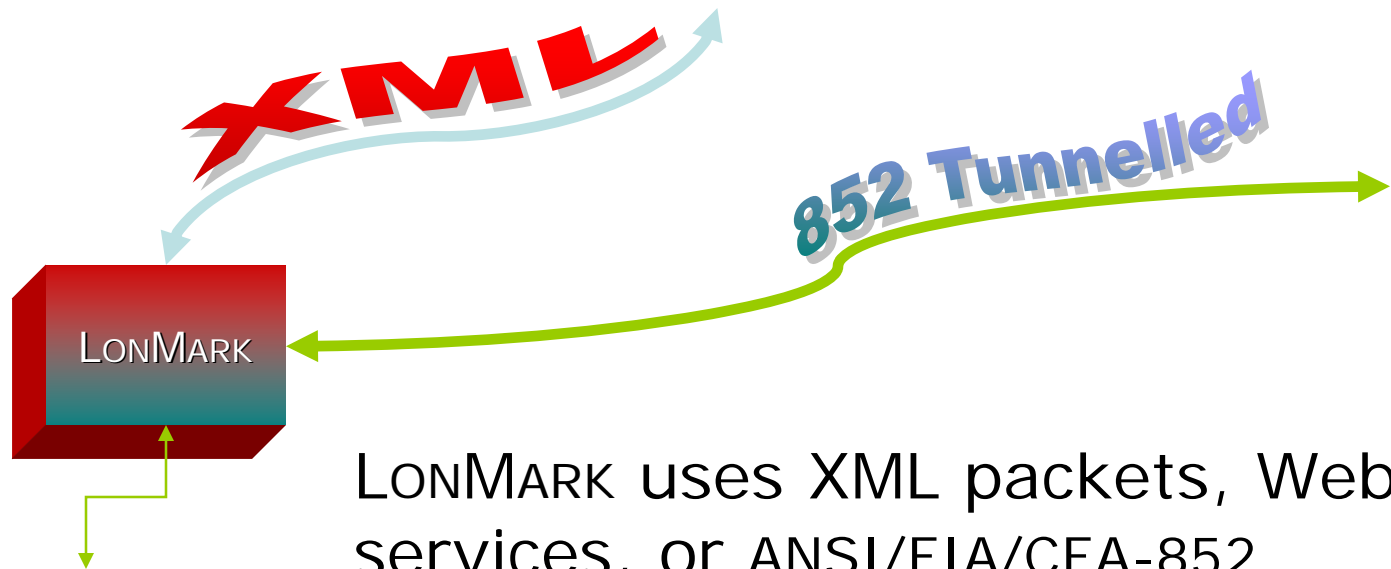
LONMARK: System-Level Interoperability

LONMARK: Device-Level Interoperability

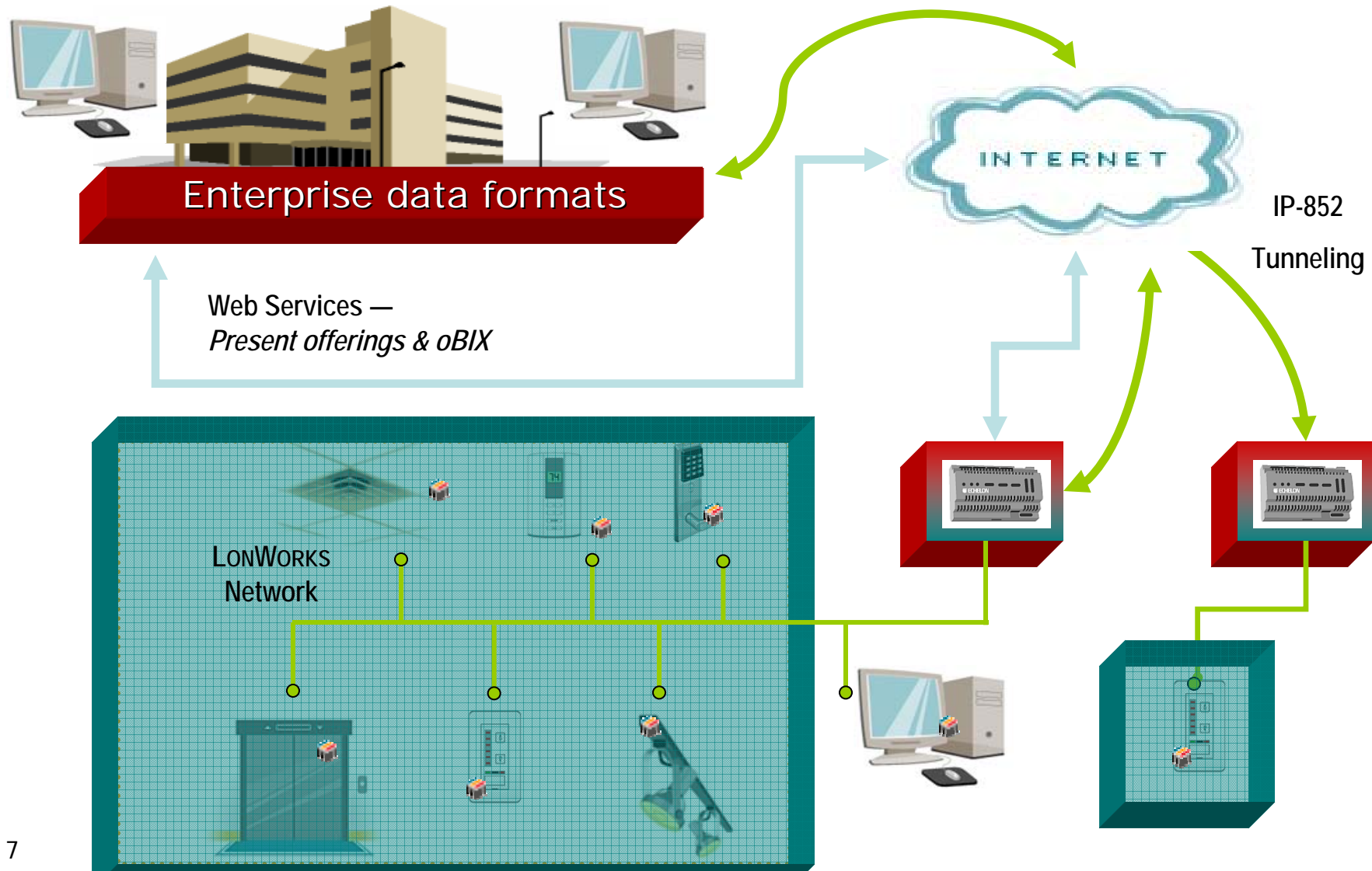


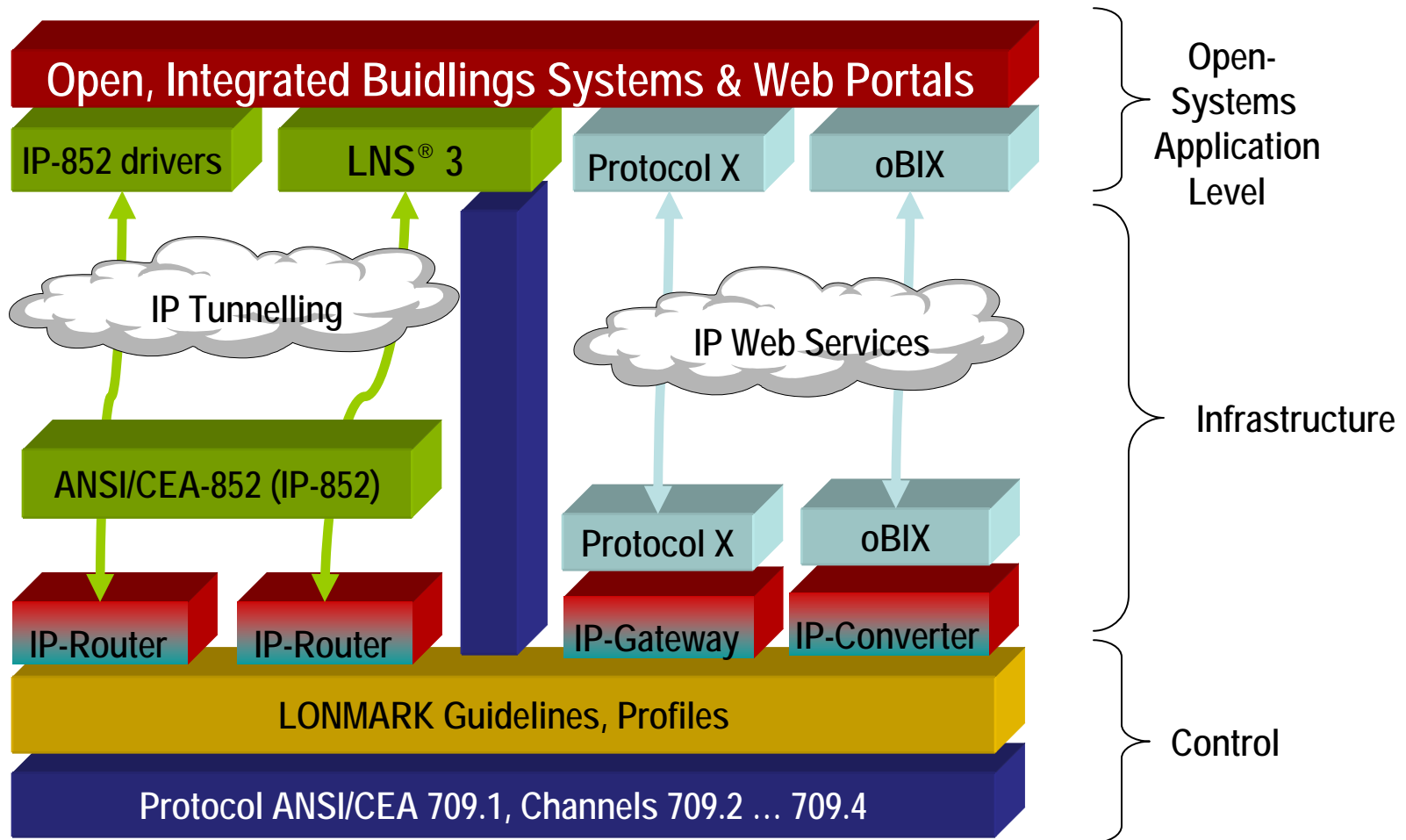


Translation of LONMARK data types to/from their XML equivalents using XML Schema and Stylesheets



LONMARK uses XML packets, Web services, or ANSI/EIA/CEA-852 tunnelled binary IP packets





- LONMARK International has been involved with Web Services solutions for many years.
- LONMARK has also supported the oBIX effort to *commonize* Web services industry-wide since the group's conception.
- Future: Continuation of Web Services integration into LONMARK open systems.

Thank you.

Echelon Corporation

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