

IP-XACT Users Group



Automated Migration to IP-XACT

IP-XACT 



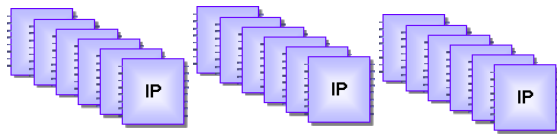
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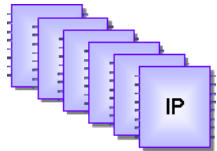
IP Integration



IP Repositories



3rd Party - IP



New- IP



■ Challenges

- Potentially 1000's of IPs
- Legacy data in multiple formats
- Emerging technologies e.g. SystemVerilog
- Migration/translation of 'Metadata' captured in natural language

■ Solutions

- Migrate to industry standard (IP-XACT™)
- Efficient capture mechanism
- Automated migration

Legacy Data



■ Formats

- Document (e.g. WORD, PDF, Docbook XML, Framemaker)
- Spreadsheet (e.g. Excel)
- Database (e.g. Access)
- Text (Proprietary, CSV)
- XML
- IP-XACT



■ Metadata

- Informal (Natural language)
- Formal (e.g. XML)
- Semi-formal (e.g. Excel)

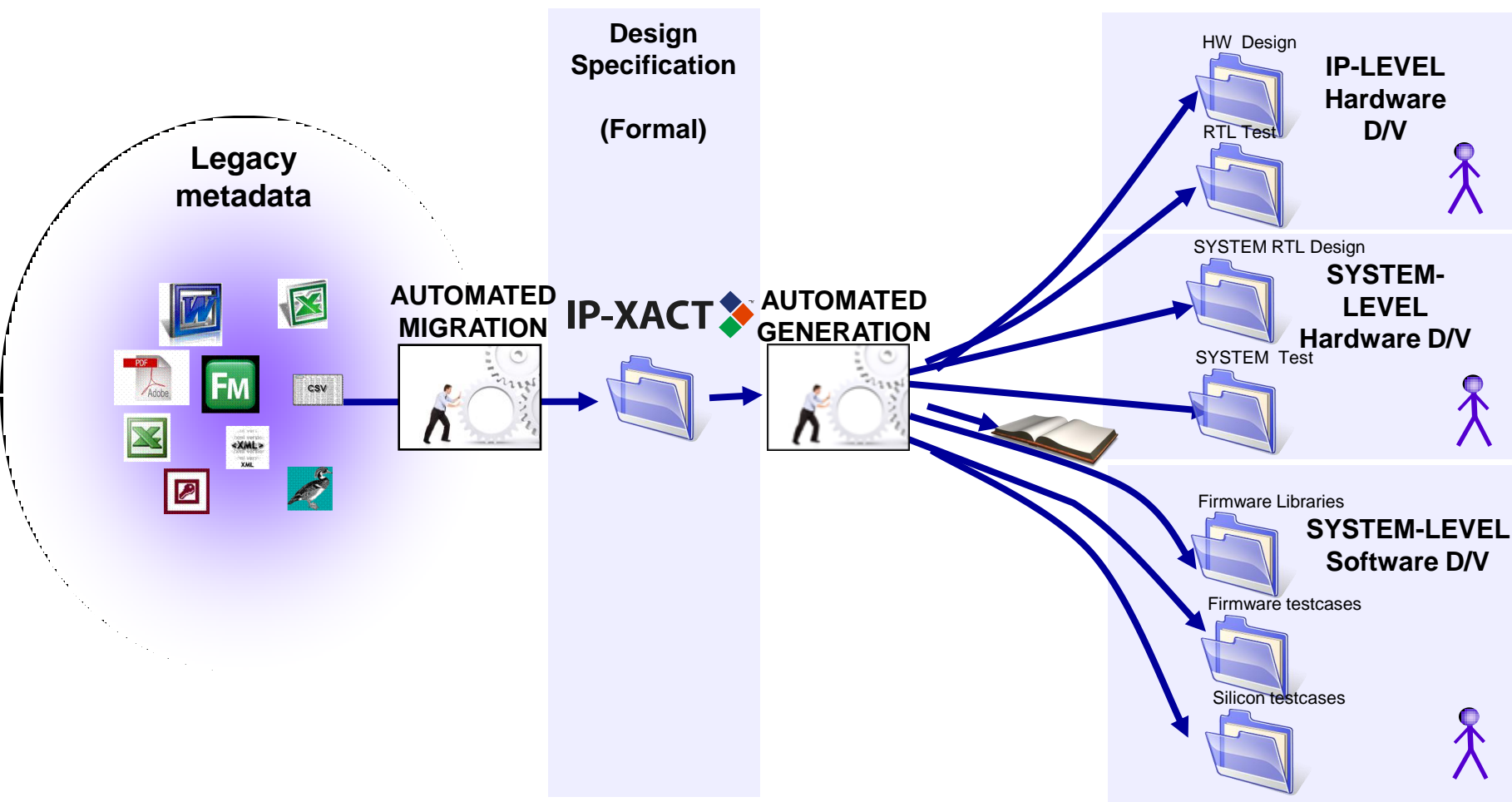


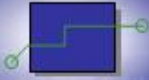
■ Content

- Ports
- Registers
- IO



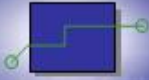
Goal: Automated End-End Flow





Migration Strategy

- Analysis:
 - Level of standardization in documents
 - How it aligns to current standardization
 - Identify the gaps
 - Strategy
 - Manual Vs Automated
- What technologies/tools to use
- Migration plan



Benefits

- Possible to automate many sources
- Powerful XML scripting technology
- Standardized via IP-XACT
- Flexibility via VendorExtensions
- Quality via IP-XACT & Bitwise coherency checking
- Flow alignment via Bitwise generators