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Customer Conference

Thursday 28th February

Radisson SAS Royal Hotel
Dublin, Ireland

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Agenda

Technical Stream



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- Session introduction
- Customer introduction
- Software use cases and architecture
- Customer implementation
- What's new since last year
- What's planned this year
- In retrospect...!
- Demos
 - Security Analyzer
 - End to end transaction
 - Stress test
- GCIS test cases
- Feedback

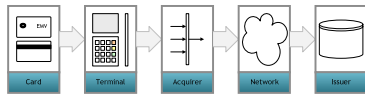
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Technical Software Use Cases



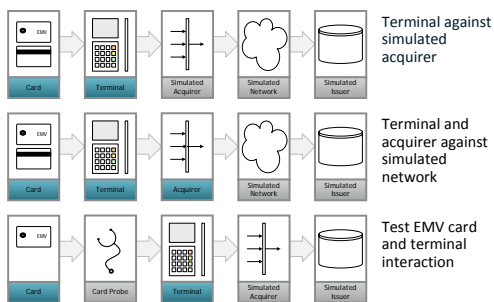
The Payment World



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Technical Vendor Use Cases



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Technical Vendor Use Cases



- Verified by major acquirers
- Supports Visa ADVT & MasterCard ETEC
- Real-time validation of results
- Detailed message and communication audits
- Pre-certification reporting
- Rapid turnaround of results
- Inhouse testing on developer desktop, not outhouse testing in acquirer

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Technical

Issuer Use Cases



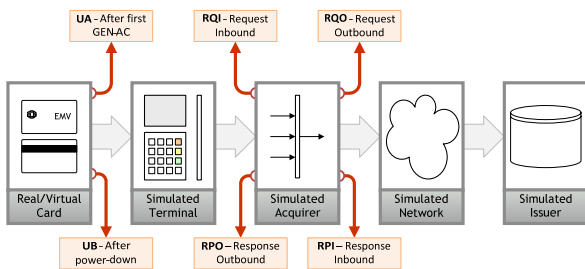
- Single test environment
- Virtual, keyed, mag-strip, ICC card entry, mail-order and others
- Full EMV cryptographic support
- 3-DES for on-line PIN
- Stress testing as standard
- Regression testing
- Multi-port, multi-session testing

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Settlement

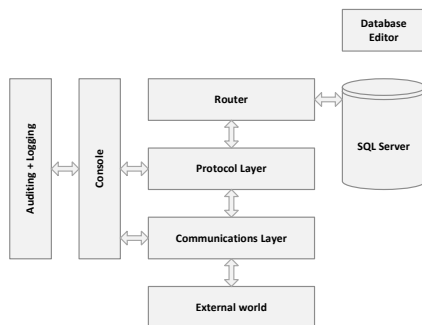


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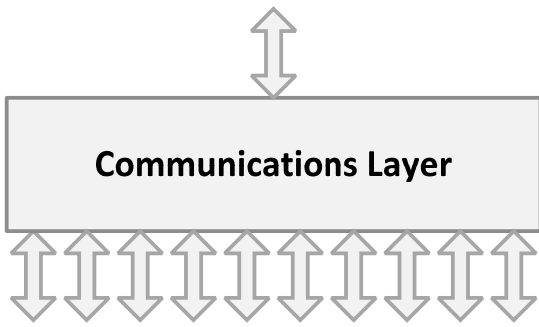
Architecture



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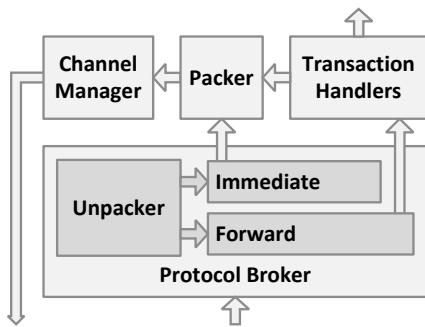
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Technical
Communications Layer



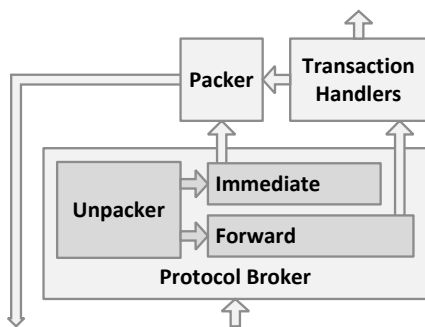
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Technical
Protocol Layer – Static Mode



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Technical
Protocol Layer – Dynamic Mode



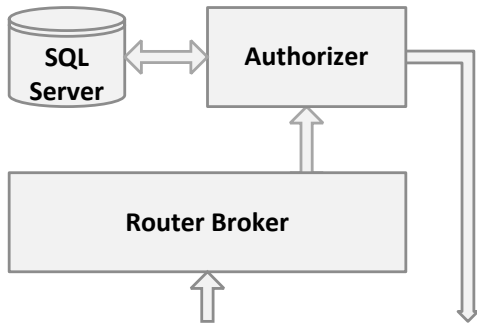
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Router Layer



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Out in the real world...



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Over to Brian!

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What's was new in 2007



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- Message Viewer
- ETEC 7.0
- GCIS
- Other handlers
- New cryptographic schemes
- Changes to EMVICC
- Virtual 8583
- Follow-on, SRQ, SRP

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What's new in 2008



- New UI
- SCIM talk

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If only they'd told me...



Over to Brian!

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Demo – Security Analyzer



- New tool to be included shortly
- Freely distributable
- Includes
 - Key component merging
 - Single and triple DES encode/decode
 - PIN block encode/decode
 - CVV generation
- More to come...

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Bulk Generator



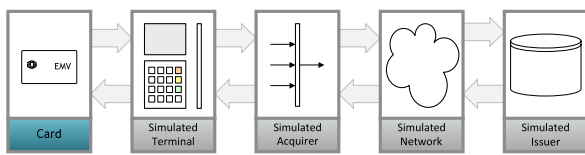
- Developed for SAMA
- Generates from transaction matrix
 - Large databases
- Creates corresponding checkpoints

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Demo – End to End Transaction



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Stress Testing



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Stress Testing



- Not as easy as it looks!
- Start off with simple transactions
 - Build it up
- Start off slow
 - Build it up
- Start off with one transaction in-flight
 - Build it up
- Mix transaction types

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Stress Testing



- Exercise your HSM farm incrementally
- Check out HSM synchronicity
- Be aware of switch load-balancing
- Multiple ports?
- Record locking?
- Graph everything
- Make sure it all makes sense
- Repeat!

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Stress Testing



- Demo...

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GCIS Database



- GCIS – New MasterCard global standard
- 700 Acquirer test cases (ATM, POS, eCommerce)
- 1000 Issuer test cases
- Used to test and validate acquirer and issuer switches

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Feedback



- Input required!

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