

The process, technology and practice of Continuous Delivery

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Agenda

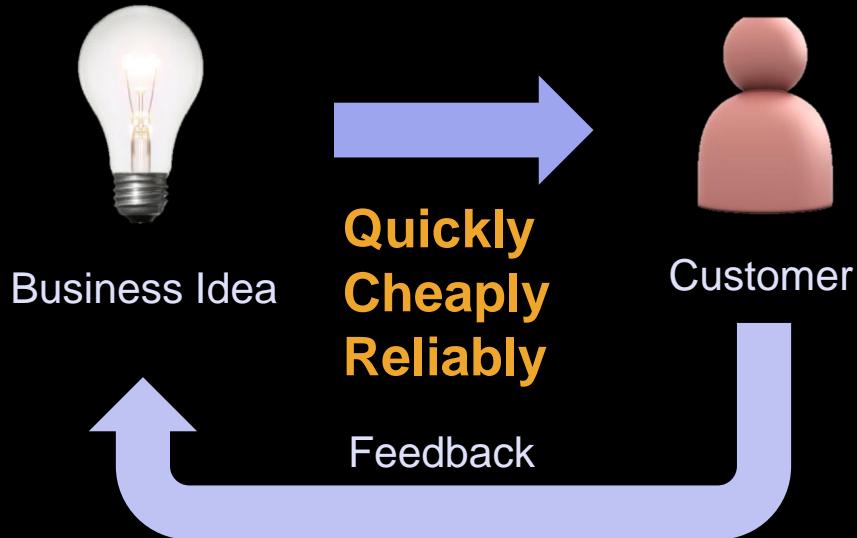
- **What is Continuous Delivery**
- **Continuous Delivery in the real world**
- **Examples of Supporting tools**
- **Q & A**

What is Continuous Delivery?

“Our highest priority is to satisfy the customer through early and continuous delivery of valuable software.”

- The first principle of the agile manifesto.
- The logical extension of continuous integration.
- A holistic approach to development.
- Every commit creates a release candidate.
- Finished means released into production!

Why Continuous Delivery ?



But software lifecycles are (typically)

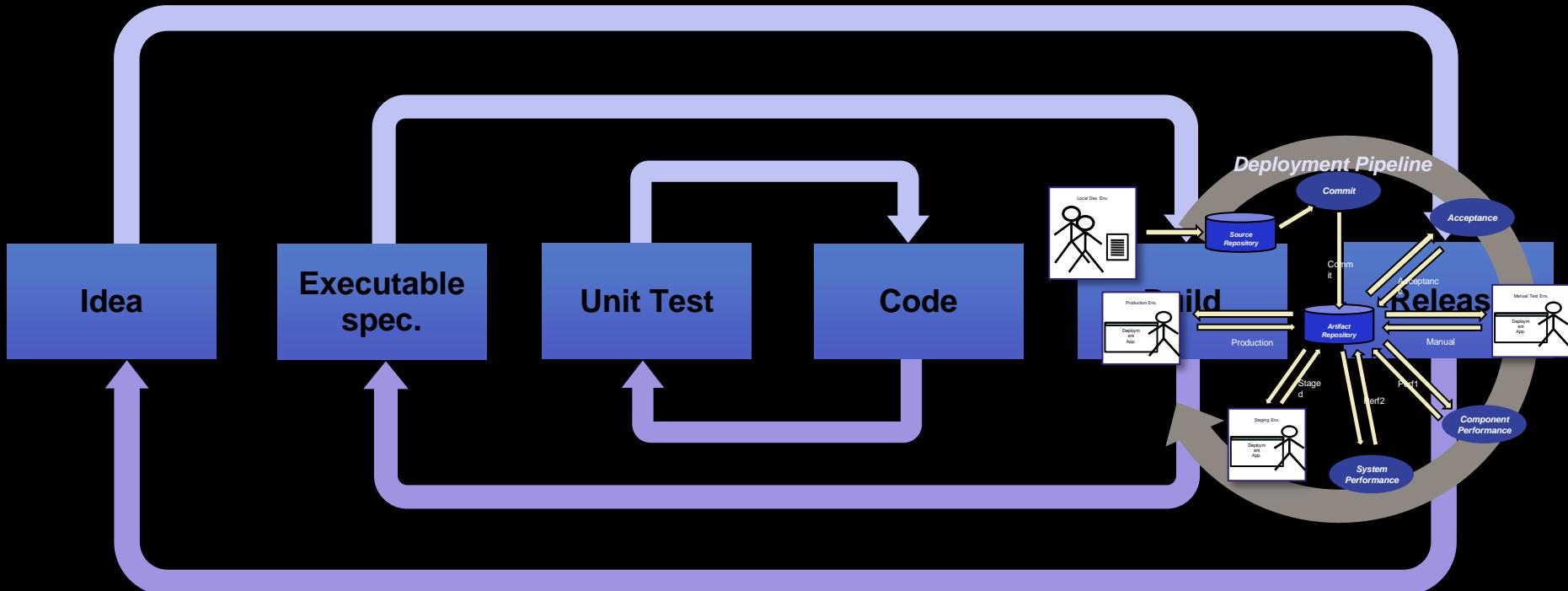
- Slow
- Inflexible
- Expose risk late
- High cost

Lean Thinking ...

- Deliver Fast
- Build Quality In
- Optimise the Whole
- Eliminate Waste
- Amplify Learning
- Decide Late
- Empower the Team

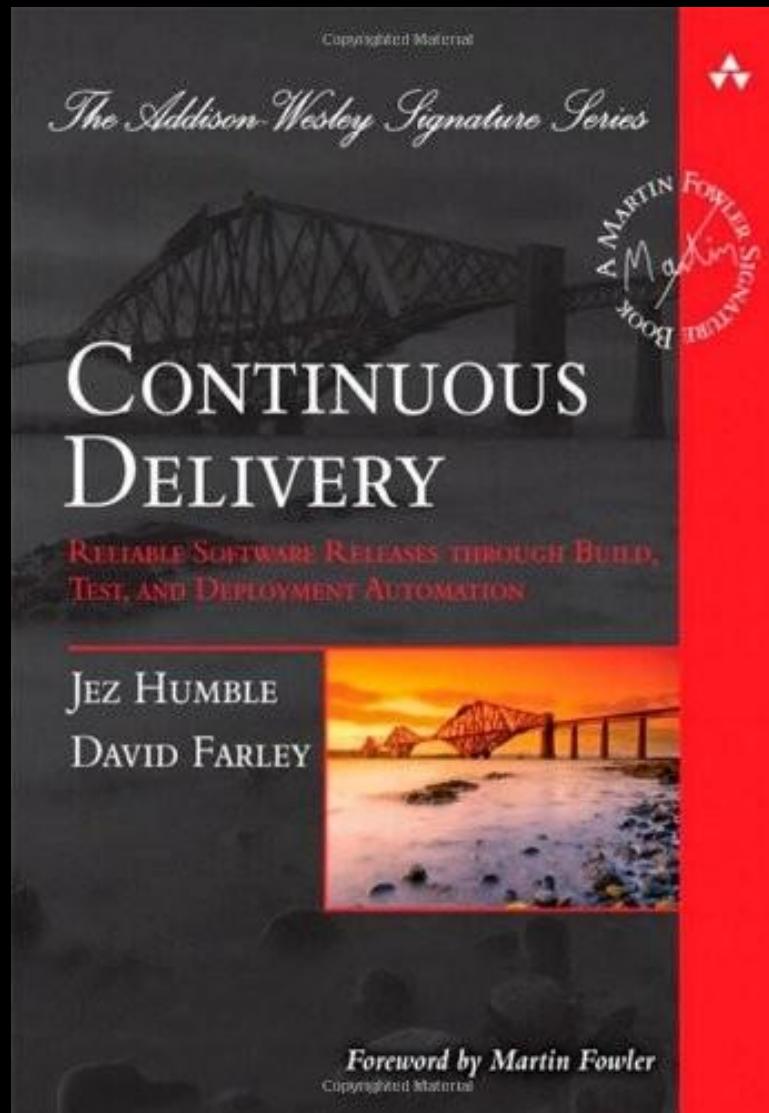
The Theory

Smart Automation - a repeatable, reliable process for releasing software



MORE THAN JUST TOOLING ...

Shameless plug



The Principles of Continuous Delivery

- Create a repeatable, reliable process for releasing software.
- Automate almost everything.
- Keep everything under version control.
- If it hurts, do it more often – bring the pain forward.
- Build quality in.
- Done means released.
- Everybody is responsible for the release process.
- Improve continuously.

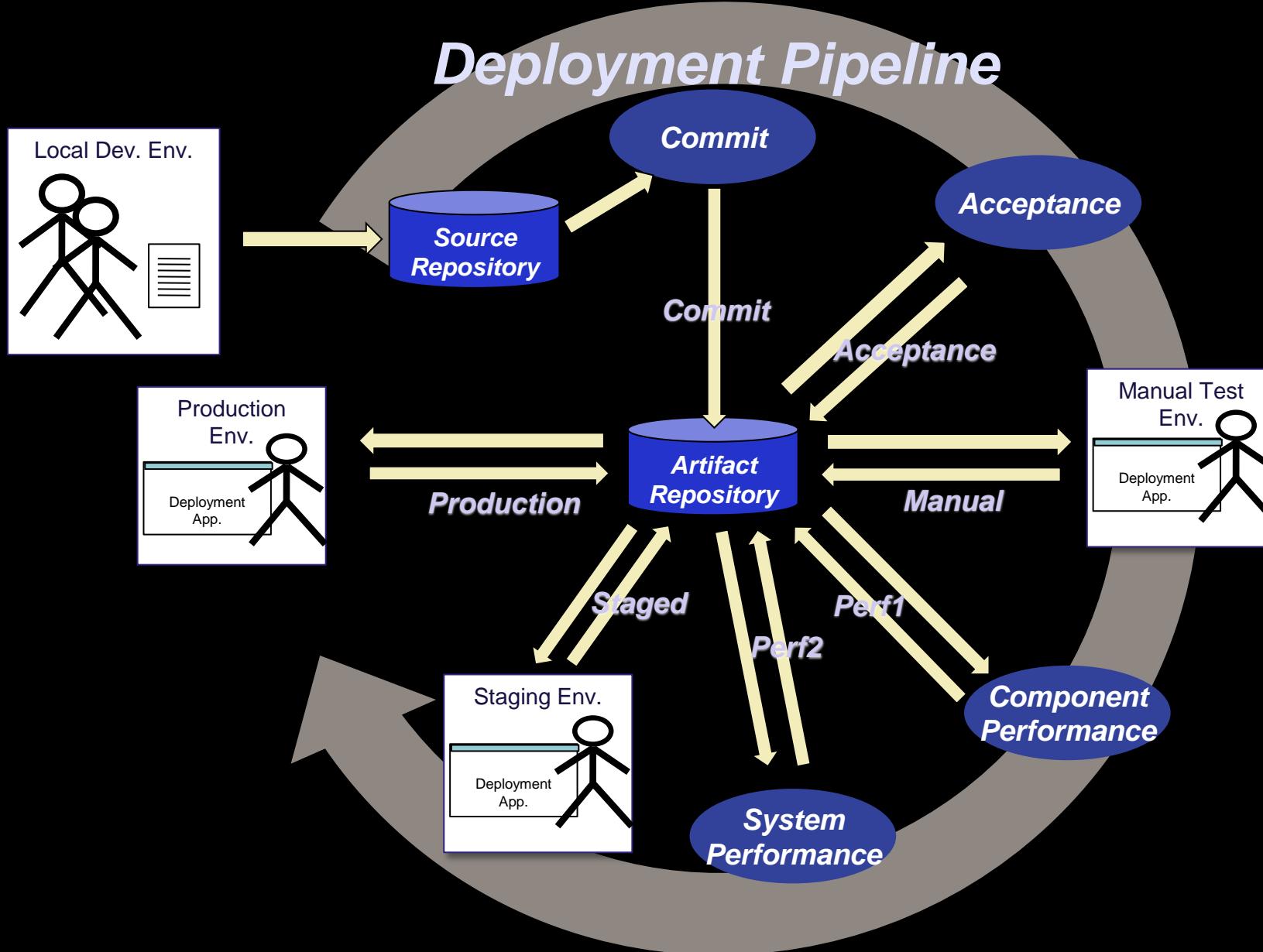
The Practices of Continuous Delivery

- Build binaries only once.
- Use precisely the same mechanism to deploy to every environment.
- Smoke test your deployment.
- If anything fails, stop the line

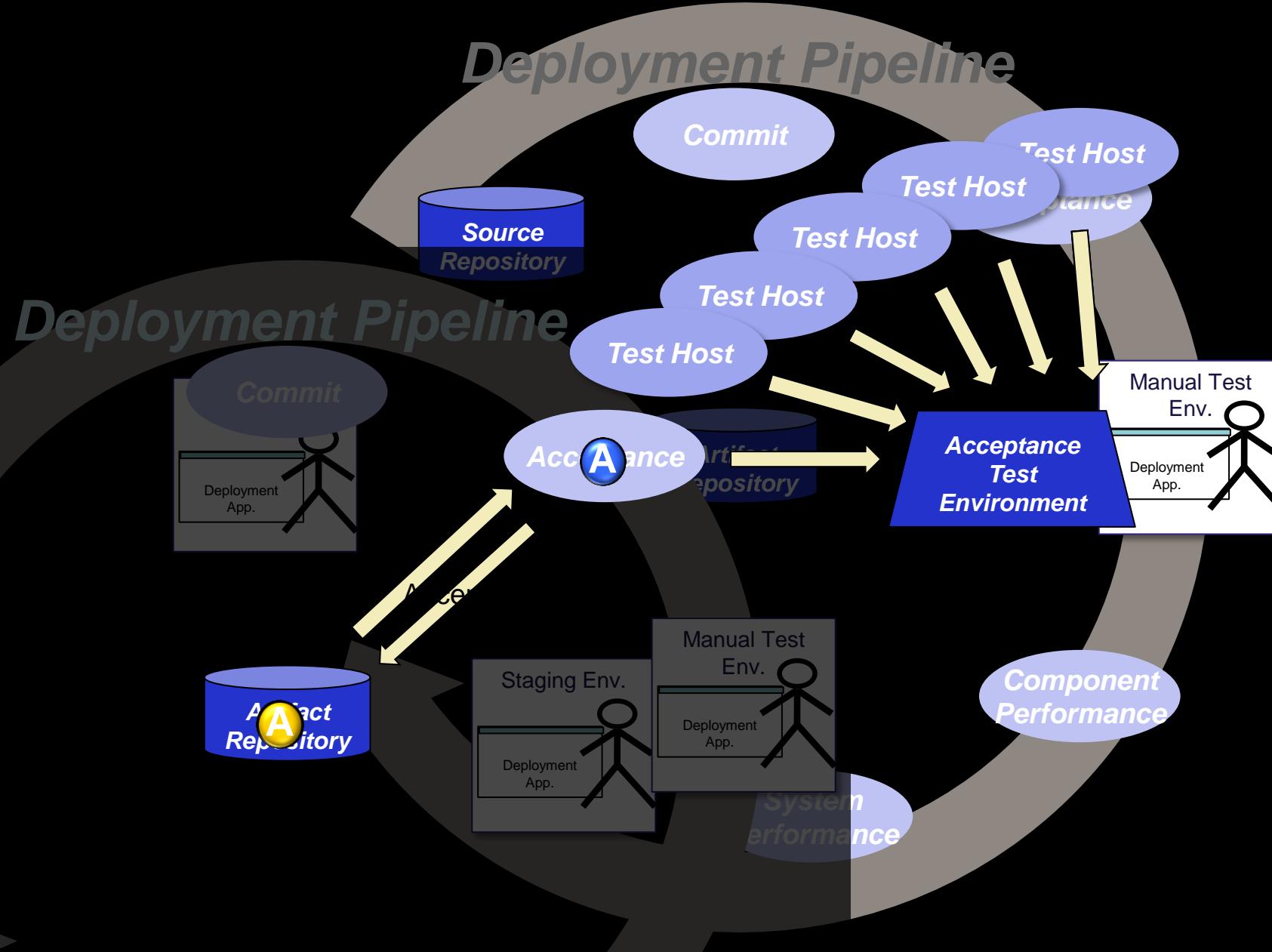
Who/What is LMAX?

- A greenfield start-up to build a high performance financial exchange
- The London Multi-Asset Exchange
- Allow retail traders access to wholesale financial markets on equal terms
- LMAX aims to be the highest performance retail financial exchange in the world

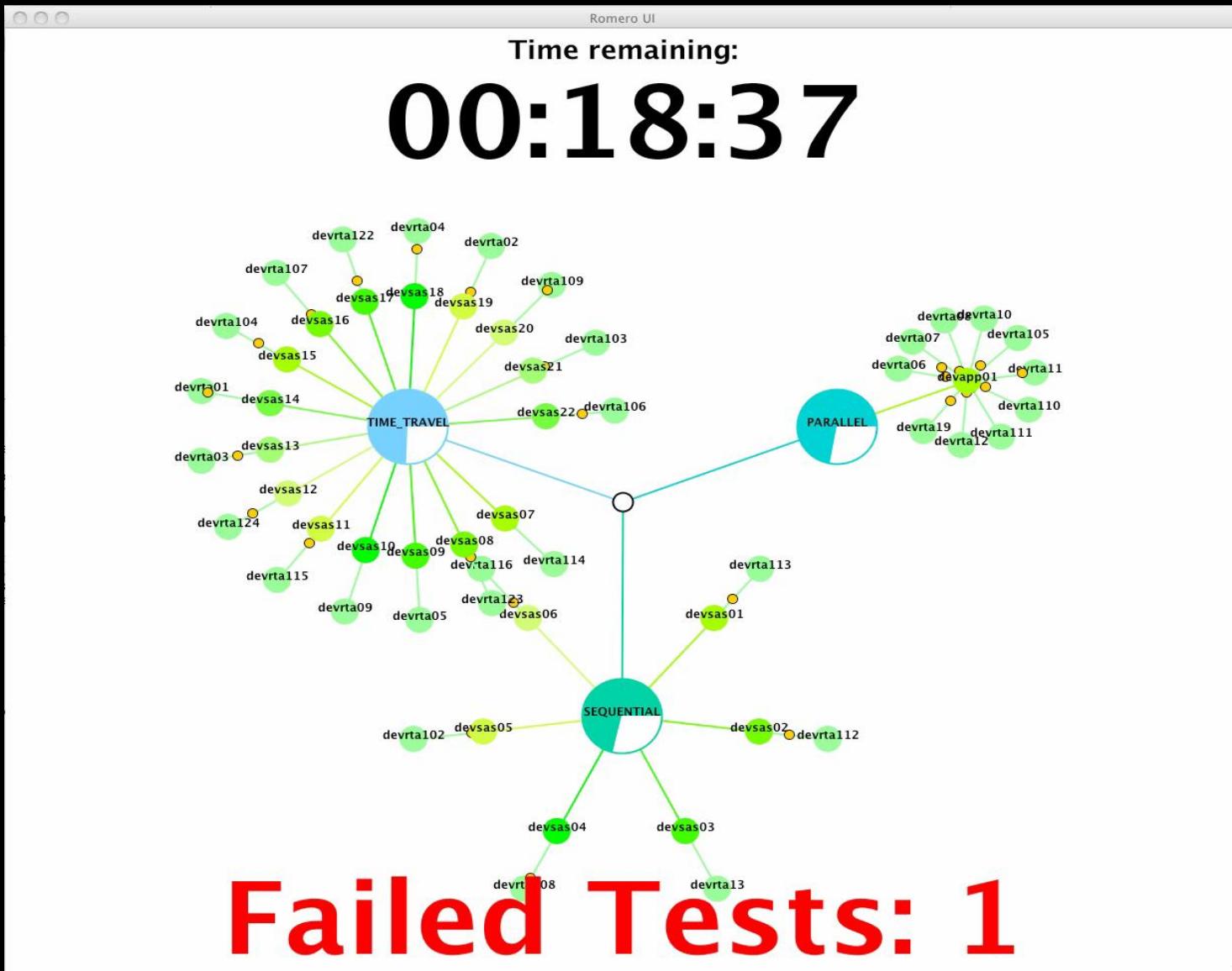
Example Continuous Delivery Process



The Acceptance Test Grid



Romero



Big Feedback

Build Status – Big Feedback

From: 26/10 To: 08/11

Iteration 77

[Set Current Iteration](#)

34552 stewarta
tfx [AndyS] #4839 Report all trades on Spot Metals to JPM and use correct counterparty when creating JPM trade reports
15 ignored tests

34552 analysis [Rev. 34551] 08 Nov 12:24 [Rev. 34550] 08 Nov 12:09 [Rev. 34549] 08 Nov 11:44

34551 acceptance [Rev. 34550] 08 Nov 12:20 [Rev. 34546] 08 Nov 11:07 [Rev. 34545] 08 Nov 10:12

34546 40 ignored tests
Romero Server

34532 15 ignored tests
it77 [Rev. 34531] 07 Nov 17:49 [Rev. 34524] 07 Nov 15:59 [Rev. 34520] 07 Nov 14:13

34532 it77-acceptance [Rev. 34531] 07 Nov 18:16 [Rev. 34524] 07 Nov 16:22 [Rev. 34520] 07 Nov 14:47

34532 it77-analysis [Rev. 34531] 07 Nov 18:01 [Rev. 34524] 07 Nov 16:10 [Rev. 34520] 07 Nov 14:26

Preview Environment (rev. 34479)

34489
acceptancesoak [Rev. 34489] 06 Nov 20:56 [Rev. 34489] 06 Nov 20:32 [Rev. 34489] 06 Nov 20:09

34521
client-library-csharp [Rev. 34508] 07 Nov 11:11 [Rev. 34503] 07 Nov 10:46 [Rev. 34301] 31 Oct 10:54

34521
client-library-csharp-acceptance [Rev. 34521] 08 Nov 10:19 [Rev. 34521] 08 Nov 09:34 [Rev. 34521] 08 Nov 08:25

34248
commons [Rev. 34248] 02 Nov 21:35 [Rev. 34248] 01 Nov 12:24 [Rev. 34248] 28 Oct 14:40

33676
dslparams [Rev. 33676] 20 Oct 21:29 [Rev. 33676] 20 Oct 20:14 [Rev. 33676] 20 Oct 20:12

Big Feedback – Showing failures

Build Status – Big Feedback

From: 26/10 To: 08/11

Iteration 77

Set Current Iteration

34578 stewarta
tfx [AndyS] Euthenasing ignored tests
15 Ignored tests

34577 analysis
Rev. 34575 08 Nov 17:00
Rev. 34573 08 Nov 16:55
Rev. 34572 08 Nov 16:43

34575 analysisdb
8 Ignored tests Failed before tests ran!

34572 08 Nov 16:37
Rev. 34558 08 Nov 14:17
Rev. 34553 08 Nov 13:20

34573 acceptance
Rev. 34568 08 Nov 16:06
Rev. 34560 08 Nov 15:18
Rev. 34556 08 Nov 14:14

34573 76 Ignored tests

Romero Server

17 Failures:

sequential.api.margin.CurrencyMarginCalculationsForUsdAccountAcceptanceTest
shouldUseBuyRateForProfitAndLossAndBlendedRateForMarginWhenPositiveCashOffsetsLossesAndPartiallyOffsetsMargin

sequential.api.margin.CurrencyMarginCalculationsForEurAccountAcceptanceTest
shouldUseBuyRateForProfitAndLossAndBlendedRateForMarginWhenPositiveCashOffsetsLossesAndPartiallyOffsetsMargin

sequential.cfdx.ViewAccountProfitAndLossTakingIntoAccountInstrumentCurrencyAcceptanceTest
shouldRecalculateAccountProfitLossWhenAWalletBalanceOfACurrencyChangesWhereIHaveAPositionOnAnInstrumentPricedInThatCurrency

sequential.cfdx.ViewAccountProfitAndLossTakingIntoAccountInstrumentCurrencyAcceptanceTest
shouldUseFXBuyRateForPositiveWalletAvailableToTradeContribution

sequential.cfdx.ViewAccountProfitAndLossTakingIntoAccountInstrumentCurrencyAcceptanceTest
shouldRecalculateAccountProfitLossWhenAccountCashBalanceChanges

sequential.api.margin.CurrencyMarginCalculationsForGbpAccountAcceptanceTest
shouldUseBlendedRateForProfitAndLossAndSellRateForMarginWhenPositiveCashPartiallyOffsetsLossesButNotMargin

sequential.api.margin.CurrencyMarginCalculationsForGbpAccountAcceptanceTest
shouldSelectRatesToUseIndependentlyByCurrency

sequential.api.margin.CurrencyMarginCalculationsForGbpAccountAcceptanceTest
shouldUseBlendedRateForProfitAndLossAndMarginWhenProfitsOffsetNegativeCashAndPartiallyOffsetMargin

sequential.fix.tradereporting.LchTradeReportingAcceptanceTest
shouldRecordAcceptedAckFromClearingDestination

sequential.cfdx.DealTicketEstimatedMarginAcceptanceTest
shouldUpdateEstimatedMarginOnEachKeyPressInQuantityField

sequential.cfdx.DealTicketEstimatedMarginAcceptanceTest
shouldUpdateEstimatedMarginInAccountCurrencyWhenExchangeRatesChangeForMarketOrder

sequential.cfdx.DealTicketEstimatedMarginAcceptanceTest
shouldUpdateEstimatedMarginValuesAndEstimatedNotionalValueWhenValuationPricesChangeForMarketOrder

sequential.api.ApplyFXRatesToWalletWhenRealisingProfitAcceptanceTest

System Alert Nerts! The last Romero Server build with fewer than 10 failures was 34568.

AutoTrish

AutoTrish - Big Feedback devdisplay01.dev.lmax/autotrish.html

Google Mail CruiseControl.rb Big Feedback Google Maps Movies Slashdot DailyTech TradeFair Mail Intranet TFX - Trac Other Bookmarks

AutoTrish™ 

[By Rank](#) [By Flavour](#) [By Error Message](#)

timetravel.DownloadAccountTransactionsTimeTravelAcceptanceTest.shouldIncludeTransactionsInLast24HoursForPrevious24HoursDownload
[25345](#) [25348](#) [25351](#) [25356](#) [25357](#) Pass: 0.00 Intermittent: 0.25 TrishRank™: 🍀🍀🍀🍀

timetravel.InstrumentListTradedPricesOnCloseOrSuspendAcceptanceTest.shouldDisplayTradedPricesForGoodUntilCancelledOrderOnClose
[25330](#) [25334](#) [25335](#) [25338](#) [25340](#) [25345](#) [25348](#) [25351](#) [25356](#) [25357](#) Pass: 0.07 Intermittent: 0.33 TrishRank™: 🍀🍀🍀

I suspect rev. 25341-25345: gravesd, hounslowd, barnesm, smithc. No twix for you.

timetravel.FxSweepUsesCorrectDaysRateForSafeguardDefect3467AcceptanceTest.shouldUseTheCorrectDaysRatesForSafeguard
[25330](#) [25334](#) [25335](#) [25338](#) [25340](#) [25345](#) [25348](#) [25351](#) [25356](#) [25357](#) Pass: 0.08 Intermittent: 0.11 TrishRank™: 🍀🍀

I suspect rev. 25341-25345: gravesd, hounslowd, barnesm, smithc. A greener build contributes to a greener environment

timetravel.InitiateFundingRunForPositionsOverMultipleDaysOnNonFxInstrumentAcceptanceTest.shouldApplyNonFxFundingOnLatestSnapshot
[25330](#) [25334](#) [25335](#) [25338](#) [25340](#) [25345](#) [25348](#) [25351](#) [25356](#) [25357](#) Pass: 0.08 Intermittent: 0.11 TrishRank™: 🍀🍀

I suspect rev. 25341-25345: gravesd, hounslowd, barnesm, smithc. Fix is not just a protocol name.

timetravel.InstrumentListTradedPricesOnCloseOrSuspendAcceptanceTest.shouldDisplayTradedPricesOnSuspension
[25330](#) [25334](#) [25335](#) [25338](#) [25340](#) [25345](#) [25348](#) [25351](#) [25356](#) [25357](#) Pass: 0.08 Intermittent: 0.11 TrishRank™: 🍀🍀

I suspect rev. 25341-25345: gravesd, hounslowd, barnesm, smithc. OK. Lets fix this.

timetravel.ScheduleWalletSnapshotAcceptanceTest.shouldSnapshotWalletsEveryDayAtSpecificSnapshotTime
[25330](#) [25334](#) [25335](#) [25338](#) [25340](#) [25345](#) [25348](#) [25351](#) [25356](#) [25357](#) Pass: 0.08 Intermittent: 0.11 TrishRank™: 🍀🍀

I suspect rev. 25341-25345: gravesd, hounslowd, barnesm, smithc. Make it go green

timetravel.UseMarketClosePriceAsValueInSnapshotAcceptanceTest.shouldUseAverageOfUpToOneHundredBidAndAskPricesPlacedInFiveMinutesUpToClose
[25330](#) [25334](#) [25335](#) [25338](#) [25340](#) [25345](#) [25348](#) [25351](#) [25356](#) [25357](#) Pass: 0.08 Intermittent: 0.11 TrishRank™: 🍀🍀

I suspect rev. 25341-25345: gravesd, hounslowd, barnesm, smithc. A greener build contributes to a greener environment

timetravel.EncumberedFundsReportTimeTravelAcceptanceTest.shouldReportDebtWhenLiquidatedAndOverExposed
[25330](#) [25334](#) [25335](#) [25338](#) [25340](#) [25345](#) [25348](#) [25351](#) [25356](#) [25357](#) Pass: 0.43 Intermittent: 0.44 TrishRank™: 🍀

timetravel.DownloadOrderHistoryTimeTravelAcceptanceTest.shouldNotIncludeOrderPlacedOver30DaysAgoInLast30DaysDownload
[25330](#) [25334](#) [25335](#) [25338](#) [25340](#) [25345](#) [25348](#) [25351](#) [25356](#) [25357](#) Pass: 0.36 Intermittent: 0.33

I suspect rev. 25356: barkern. Fix is not just a protocol name.

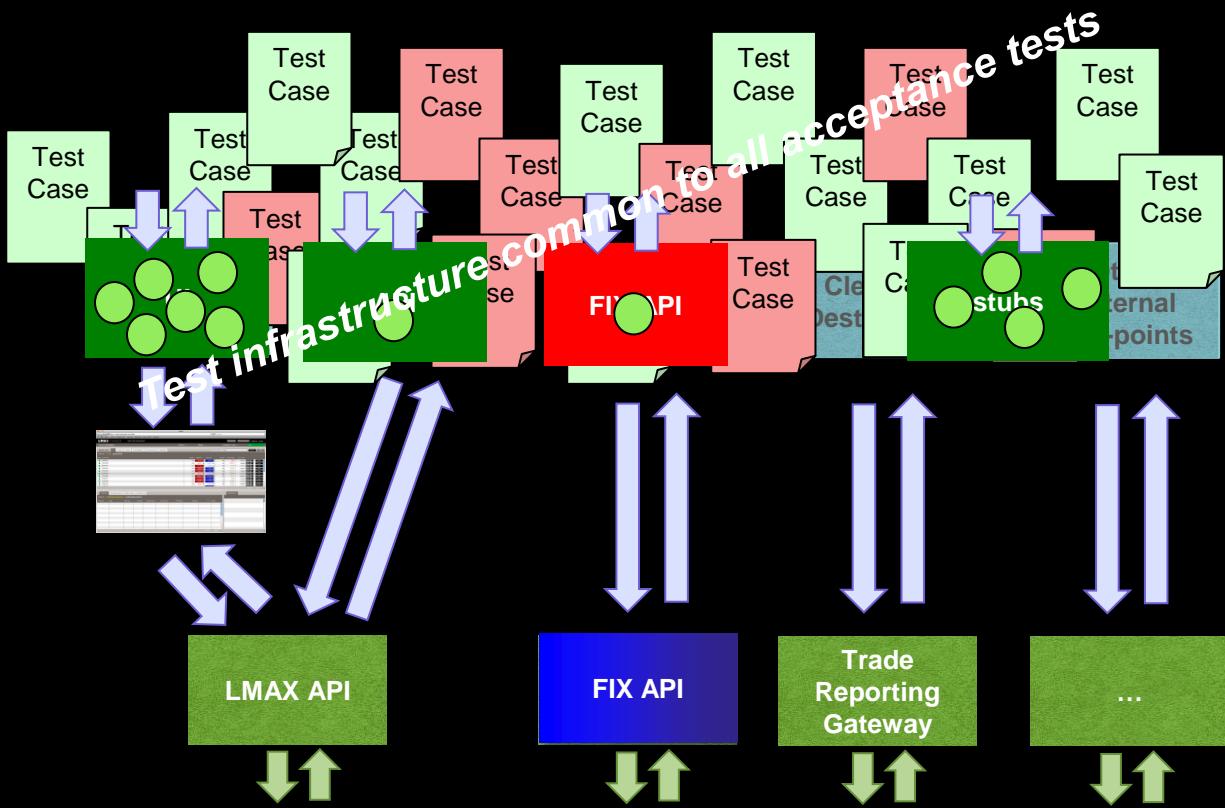
timetravel.EncumberedFundsReportTimeTravelAcceptanceTest.shouldReportDisaggregatedUnrealisedProfitAndLoss
[25330](#) [25334](#) [25335](#) [25338](#) [25340](#) [25345](#) [25348](#) [25351](#) [25356](#) [25357](#) Pass: 0.46 Intermittent: 0.44 TrishRank™: 🍀

timetravel.EncumberedFundsReportTimeTravelAcceptanceTest.shouldReportFxFundingAndHaircutSeparately
[25330](#) [25334](#) [25335](#) [25338](#) [25340](#) [25345](#) [25348](#) [25351](#) [25356](#) [25357](#) Pass: 0.46 Intermittent: 0.44 TrishRank™: 🍀

timetravel.EncumberedFundsReportTimeTravelAcceptanceTest.shouldReportOpeningAndClosingBalancesForClosingAccountsWithoutTradingActivity
[25330](#) [25334](#) [25335](#) [25338](#) [25340](#) [25345](#) [25348](#) [25351](#) [25356](#) [25357](#) Pass: 0.46 Intermittent: 0.44 TrishRank™: 🍀

timetravel.EncumberedFundsReportTimeTravelAcceptanceTest.shouldReportOpeningAndClosingBalancesForClosingAccountsWithoutTradingActivity

Acceptance Testing



Acceptance Testing – DSL

```
@Test
public void shouldSupportPlacingValidBuyAndSellLimitOrders()
{
    tradingUI.showDealTicket("instrument");
    tradingUI.dealTicket.placeOrder("type: limit", "bid: 4@10");
    tradingUI.dealTicket.checkFeedbackMessage("You have successfully sent a limit order to buy 4.00 contracts at 10.0");
    tradingUI.dealTicket.dismissFeedbackMessage();

    tradingUI.dealTicket.placeOrder("type: limit", "ask: 4@9");
    tradingUI.dealTicket.checkFeedbackMessage("You have successfully sent a limit order to sell 4.00 contracts at 9.0");
}

@Test
public void shouldSuccessfullyPlaceAnImmediateOrCancelBuyMarketOrder()
{
    fixAPIMarketMaker.placeMassOrder("instrument", "ask: 11@52", "ask: 10@51", "ask: 10@50", "bid: 10@49");

    fixAPI.placeOrder("instrument", "side: buy", "quantity: 4", "goodUntil: Immediate", "allowUnmatched: true");
    fixAPI.waitForExecutionReport("executionType: Fill", "orderStatus: Filled",
        "side: buy", "quantity: 4", "matched: 4", "remaining: 0",
        "executionPrice: 50", "executionQuantity: 4");
}

@Before
public void beforeEveryTest()
{
    adminAPI.createInstrument("name: instrument");
    registrationAPI.createUser("user");
    registrationAPI.createUser("marketMaker", "accountType: MARKET_MAKER");
    tradingUI.loginAsLive("user");
}
```

Acceptance Testing – DSL

```
public void placeOrder(final String... args)
{
    final DslParams params =
        new DslParams(args,
                      new OptionalParam("type").setDefault("Limit").setAllowedValues("limit", "market", "StopMarket"),
                      new OptionalParam("side").setDefault("Buy").setAllowedValues("buy", "sell"),
                      new OptionalParam("price"),
                      new OptionalParam("triggerPrice"),
                      new OptionalParam("quantity"),
                      new OptionalParam("stopProfitOffset"),
                      new OptionalParam("stopLossOffset"),
                      new OptionalParam("confirmFeedback").setDefault("true"));

    getDealTicketPageDriver().placeOrder(params.value("type"),
                                         params.value("side"),
                                         params.value("price"),
                                         params.value("triggerPrice"),
                                         params.value("quantity"),
                                         params.value("stopProfitOffset"),
                                         params.value("stopLossOffset"));

    if (params.valueAsBoolean("confirmFeedback"))
    {
        getDealTicketPageDriver().clickOrderFeedbackConfirmationButton();
    }

    LOGGER.debug("placeOrder(" + Arrays.deepToString(args) + ")");
}
```

Acceptance Testing – DSL

```
public void placeOrder(final String... args)
{
    final DslParams params = new DslParams(args,
        new RequiredParam("instrument"),
        new OptionalParam("clientOrderId"),
        new OptionalParam("order"),
        new OptionalParam("side").setAllowedValues("buy", "sell"),
        new OptionalParam("orderType").setAllowedValues("market", "limit"),
        new OptionalParam("price"),
        new OptionalParam("bid"),
        new OptionalParam("ask"),
        new OptionalParam("symbol").setDefault("BARC"),
        new OptionalParam("quantity"),
        new OptionalParam("goodUntil").setAllowedValues("Immediate", "Cancelled").setDefault("Cancelled"),
        new OptionalParam("allowUnmatched").setAllowedValues("true", "false").setDefault("true"),
        new OptionalParam("possibleResend").setAllowedValues("true", "false").setDefault("false"),
        new OptionalParam("unauthorised").setAllowedValues("true"),
        new OptionalParam("brokeredAccountId"),
        new OptionalParam("msgSeqNum"),
        new OptionalParam("orderCapacity").setAllowedValues("AGENCY", "PRINCIPAL", "").setDefault("PRINCIPAL"),
        new OptionalParam("accountType").setAllowedValues("CUSTOMER", "HOUSE", "").setDefault("HOUSE"),
        new OptionalParam("accountClearingReference"),
        new OptionalParam("expectedOrderRejectionStatus").
            setAllowedValues("TOO_LATE_TO_ENTER", "BROKER_EXCHANGE_OPTION", "UNKNOWN_SYMBOL", "DUPLICATE_ORDER"),
        new OptionalParam("expectedOrderRejectionReason").setAllowedValues("INSUFFICIENT_LIQUIDITY", "INSTRUMENT_NOT_OPEN",
            "INSTRUMENT_DOES_NOT_EXIST", "DUPLICATE_ORDER",
            "QUANTITY_NOT_VALID", "PRICE_NOT_VALID", "INVALID_ORDER_INSTRUCTION",
            "OUTSIDE_VOLATILITY_BAND", "INVALID_INSTRUMENT_SYMBOL",
            "ACCESS_DENIED", "INSTRUMENT_SUSPENDED"),
        new OptionalParam("expectedSessionRejectionReason").setAllowedValues("INVALID_TAG_NUMBER", "REQUIRED_TAG_MISSING",
            "TAG_NOT_DEFINED_FOR_THIS_MESSAGE_TYPE",
            "UNDEFINED_TAG", "TAG_SPECIFIED_WITHOUT_A_VALUE",
            "VALUE_IS_INCORRECT_FOR_THIS_TAG", "INCORRECT_DATA_FORMAT_FOR_VALUE",
            "DECRYPTION_PROBLEM", "SIGNATURE_PROBLEM",
            "COMPID_PROBLEM", "SENDING_TIME_ACCURACY_PROBLEM",
            "INVALID_MSG_TYPE"),
        new OptionalParam("idSource").setDefault(EXCHANGE_SYMBOL_ID_SOURCE));
}
```

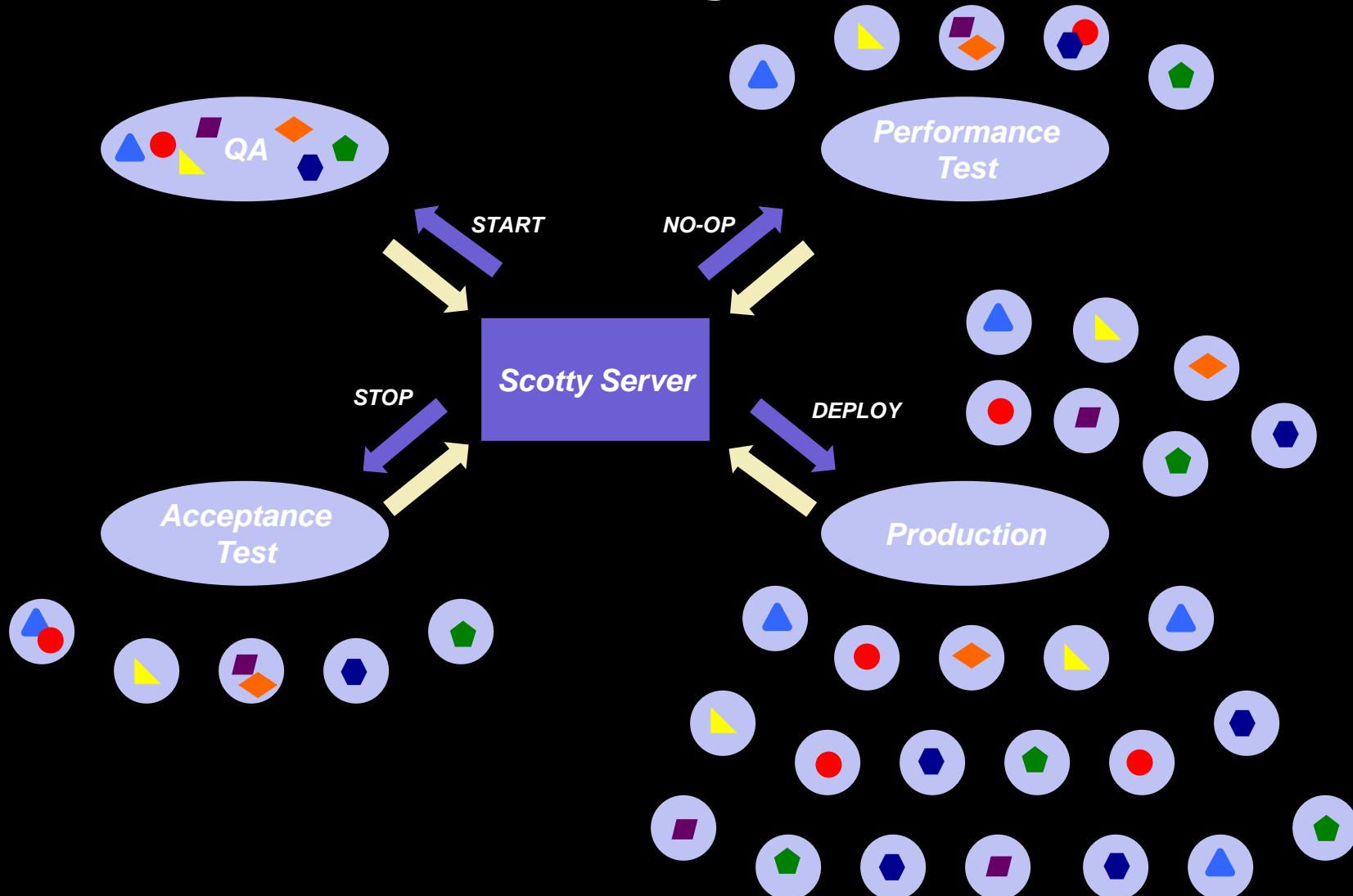
Acceptance Testing – DSL

```
@Test
public void shouldSupportPlacingValidBuyAndSellLimitOrders()
{
    tradingUI.showDealTicket("instrument");
    tradingUI.dealTicket.placeOrder("type: limit", "bid: 4@10");
    tradingUI.dealTicket.checkFeedbackMessage("You have successfully sent a limit order to buy 4.00 contracts at 10.0");
    @Channel(fixAPI, dealTicket, publicAPI)
    @Test
    public void shouldSuccessfullyPlaceAnImmediateOrCancelBuyMarketOrder()
    {
        tradingUI.dealTicket.checkFeedbackMessage("You have successfully sent a limit order to sell 4.00 contracts at 9.0");
        trading.placeOrder("instrument", "side: buy", "price: 123.45", "quantity: 4", "goodUntil: Immediate");
    }
    @Test
    public void shouldSuccessfullyPlaceAnImmediateOrCancelBuyMarketOrder()
    {
        fixAPIMarketMaker.placeMassOrder("executionType: Fill", "orderStatus: Filled",
                                         "side: buy", "quantity: 4", "matched: 4", "remaining: 0",
                                         "executionPrice: 1123.45", "executionQuantity: 4");
    }
    fixAPI.placeOrder("instrument", "side: buy", "quantity: 4", "goodUntil: Immediate", "allowUnmatched: true");
    fixAPI.waitForExecutionReport("executionType: Fill", "orderStatus: Filled",
                                 "side: buy", "quantity: 4", "matched: 4", "remaining: 0",
                                 "executionPrice: 50", "executionQuantity: 4");
}
```

Acceptance Testing – Simple DSL

- Now Open Source...
 - <https://code.google.com/p/simple-dsl/>

Scotty



Scotty – Performing a release

Scotty Status

http://tfdeploy01.dev.tradefair/scotty/revisions_deploy.html?env=devqas106

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devqas106

Actions: ----

Revision	Branch	Approvals	Revision Actions	
34579	trunk	OPERATIONS (0/1), FUNCTIONAL_TEST (0/3)	<input type="button" value="Upgrade"/>	<input type="button" value="Do it"/>
34578	trunk	OPERATIONS (0/1), FUNCTIONAL_TEST (0/3)	<input type="button" value="Upgrade"/>	<input type="button" value="Do it"/>
34577	trunk	OPERATIONS (0/1), FUNCTIONAL_TEST (0/3)	<input type="button" value="Upgrade"/>	<input type="button" value="Do it"/>
34576	it77	OPERATIONS (0/1), FUNCTIONAL_TEST (0/3)	<input type="button" value="Upgrade"/>	<input type="button" value="Do it"/>
34575	trunk	OPERATIONS (0/1), FUNCTIONAL_TEST (0/3)	<input type="button" value="Upgrade"/>	<input type="button" value="Do it"/>
34573	trunk	OPERATIONS (0/1), FUNCTIONAL_TEST (0/3)	<input type="button" value="Upgrade"/>	<input type="button" value="Do it"/>
34572	trunk	OPERATIONS (0/1), FUNCTIONAL_TEST (0/3)	<input type="button" value="Upgrade"/>	<input type="button" value="Do it"/>
34571	trunk	OPERATIONS (0/1), FUNCTIONAL_TEST (0/3)	<input type="button" value="Upgrade"/>	<input type="button" value="Do it"/>
34570	trunk	OPERATIONS (0/1), FUNCTIONAL_TEST (0/3)	<input type="button" value="Upgrade"/>	<input type="button" value="Do it"/>
34568	trunk	OPERATIONS (0/1), FUNCTIONAL_TEST (0/3)	<input type="button" value="Upgrade"/>	<input type="button" value="Do it"/>
34565	trunk	OPERATIONS (0/1), FUNCTIONAL_TEST (0/3)	<input type="button" value="Upgrade"/>	<input type="button" value="Do it"/>
34563	trunk	OPERATIONS (0/1), FUNCTIONAL_TEST (0/3)	<input type="button" value="Upgrade"/>	<input type="button" value="Do it"/>
34561	trunk	OPERATIONS (0/1), FUNCTIONAL_TEST (0/3)	<input type="button" value="Upgrade"/>	<input type="button" value="Do it"/>
34560	trunk	OPERATIONS (0/1), FUNCTIONAL_TEST (0/3)	<input type="button" value="Upgrade"/>	<input type="button" value="Do it"/>
34559	trunk	OPERATIONS (0/1), FUNCTIONAL_TEST (0/3)	<input type="button" value="Upgrade"/>	<input type="button" value="Do it"/>

Scotty – Environment Detail

Scotty cpf Status

http://tfdeploy01.dev.tradefair/scotty/env.html?env=cpf

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Summary	IDLE	WORKING	COMPLETED	FAILED
NO_OP	15	0	0	0

[Environments](#) [Stop Auto-Refresh](#)

cpf [Deployment](#)

[Dashboard](#) [Details](#)

Environment Actions (rev. 34579): [-----](#) [Do it](#) [Reset Env](#)

Host	Command	UA Status	Installed Revision	Role	Health	Last Check-in (UTC)	Host Action
cpfacs01.dev.tradefair scotty build 32756	NO_OP	IDLE zzzz...	34579	account-svc	account-svc: Server: OK, PRIMARY	2011-11-08 18:11:18	----- Do it
cpfadb01.dev.tradefair scotty build 32756	NO_OP	IDLE zzzz...	34579	database-adb-live	database: OK	2011-11-08 18:11:13	----- Do it
cpfcsh01.dev.tradefair scotty build 32756	NO_OP	IDLE zzzz...	34579	web-admin	web-admin: Server: OK, PRIMARY	2011-11-08 18:11:15	----- Do it
cpfcsv01.dev.tradefair scotty build 32756	NO_OP	IDLE zzzz...	34579	contact-svc	contact-svc: Server: OK, PRIMARY	2011-11-08 18:11:18	----- Do it
cpfins01.dev.tradefair scotty build 32756	NO_OP	IDLE zzzz...	34579	instrument-svc	instrument-svc: Server: OK, PRIMARY	2011-11-08 18:11:17	----- Do it
cpfpgw01.dev.tradefair scotty build 32756	NO_OP	IDLE zzzz...	34579	payment-gateway	payment-gateway: Server: OK, PRIMARY	2011-11-08 18:11:12	----- Do it
cpfpsv01.dev.tradefair scotty build 32756	NO_OP	IDLE zzzz...	34579	payment-svc	payment-svc: Server: OK, PRIMARY	2011-11-08 18:11:15	----- Do it
cpfrts01.dev.tradefair scotty build 32756	NO_OP	IDLE zzzz...	34579	broker-fix-trading-gateway	broker-fix-trading-gateway: Server: OK, PRIMARY	2011-11-08 18:11:22	----- Do it
cpfwdb01.dev.tradefair scotty build 32756	NO_OP	IDLE zzzz...	34579	database-wdb-live	database-logging: OK	2011-11-08 18:11:19	----- Do it
pf1ems01.dev.tradefair scotty build 32756	NO_OP	IDLE PROMOTING_AS_CONFIGURED	34579	ems1	ems1: Server: OK, PRIMARY	2011-11-08 18:11:17	----- Do it
pf1ems02.dev.tradefair scotty build 32756	NO_OP	IDLE PROMOTING_AS_CONFIGURED	34579	ems2	ems2: Server: OK, SECONDARY	2011-11-08 18:11:18	----- Do it
pf1evs01.dev.tradefair scotty build 32756	NO_OP	IDLE PROMOTING_AS_CONFIGURED	34579	ev1	ev1: Server: OK, PRIMARY	2011-11-08 18:11:17	----- Do it
pf1evs02.dev.tradefair scotty build 32756	NO_OP	IDLE PROMOTING_AS_CONFIGURED	34579	ev2	ev2: Server: OK, SECONDARY	2011-11-08 18:11:22	----- Do it

Scotty – Single Server Environment

Scotty qas104 Status

http://tfdeploy01.dev.tradefair/scotty/env.html?env=qas104

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Summary IDLE WORKING COMPLETED FAILED

NO_OP 1 0 0 0

Environments Stop Auto-Refresh

qas104 Deployment

Environment Actions (rev. 34555): ----- Do it Reset Env

Dashboard Details

Host	Command	UA Status	Installed Revision	Role	Health	Last Check-in (UTC)	Host Action
devqas104.dev.tradefair scotty build 32756	NO_OP	IDLE PROMOTING_AS_CONFIGURED	34555	all-primaries-except-market-monitoring	account-svc: Server: OK, PRIMARY broker-fix-trading-gateway: Server: OK, PRIMARY contact-svc: Server: OK, PRIMARY data-export: Server: OK, PRIMARY database: OK ems1: Server: OK, PRIMARY_AT_RISK ev1: Server: OK, PRIMARY_AT_RISK fix-gateway: Server: OK, PRIMARY fix-trade-reporting-gateway: Server: OK, PRIMARY identity-check-gateway: Server: OK, PRIMARY instrument-svc: Server: OK, PRIMARY market-data-svc: Server: OK, PRIMARY mmbot: Server: OK, PRIMARY payment-gateway: Server: OK, PRIMARY payment-svc: Server: OK, PRIMARY registration-gateway: Server: OK, PRIMARY stub-ftp-server: OK (NO OP) treasury-svc: Server: OK, PRIMARY trs: Server: OK, PRIMARY web-admin: Server: OK, PRIMARY web-latencyMonitor: OK: Server returned HTTP 200 web-public: Server: OK, PRIMARY web-stub: Server: OK, PRIMARY	2011-11-08 18:12:44	----- Do it

>> Show History

Wrap up Q & A

Dave Farley

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