JSE Mainframe Migration Project

10 March 2021

let's connect

AGENDA - JSE Mainframe Migration

Agenda

- UAT Testing Feedback

- Dress Rehearsal Feedback

- Go-Live Deployment

  - Dates and Timelines

  - ICB Deployment

  - Member Involvement

- Data Reconciliation

- Questions

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JSE Mainframe Migration – UAT

- Successful UAT completed 5 March 2021 where focus was on Integration testing

- Functional Testing
  - No BDA functional issues reported

- Internal Integration
  - Batch files
    - Reference data (Equity, Bonds, Unit Trusts)
    - Equity & Currency Derivatives files from RTC
    - Safex files (STT)
    - Bonds from IRC (Nutron)
  - All messages flows between BDA and ECS

JSE Mainframe Migration – UAT (cont..)

- External Integration
  - Messages flows between BDA & Strate
  - Message flows between BDA and CSDP's
  - Corporate Action Swift messages to CSDP's
    - MT564; MT565
  - MT535 messages from CSDP's
  - JSET sweep and settlement sweeps messages to Banks
  - Funding Instructions to Banks

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JSE Mainframe Migration – Dress Rehearsals

- 4 Dress Rehearsals conducted

- Testing conducted on IBM production machine
    - Broker connectivity
    - Resetting passwords
    - Recycling LU's
    - Re-spooling BDA reports to ERD
    - Downloading via IDP/FTP
    - Uploading via FTP
    - Screen Scraping (3270 Key Stroke Emulation)

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JSE Mainframe Migration – Dress Rehearsals (cont..)

- Known go-live issues

  - Re-spooling reports to a remote printer

    - Limited brokers impacted

    - Brokers impacted have been communicated with

  - Electronic Banking Interfaces
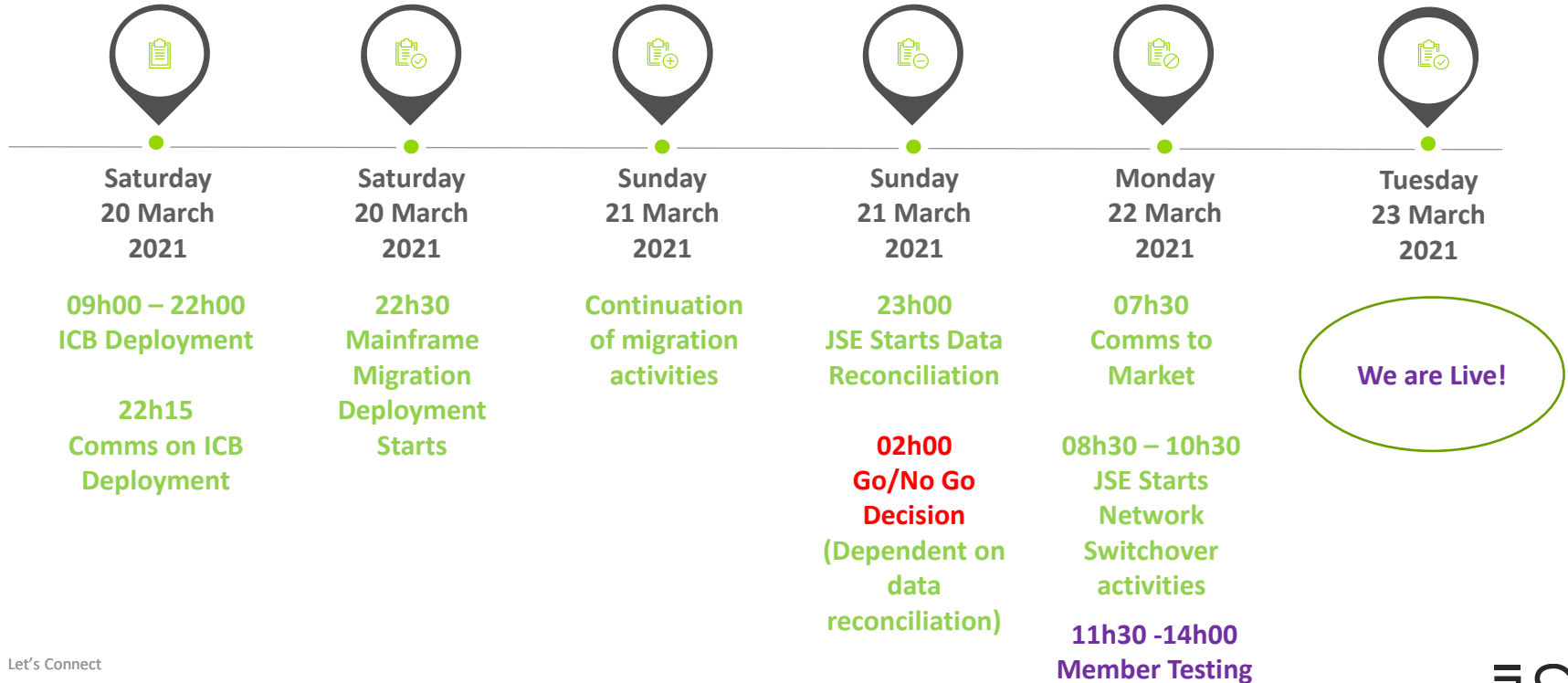
    - No test environment to test

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JSE Mainframe Migration Timeline

Saturday 20 March 2021

09h00 – 22h00 ICB Deployment

22h15 Comms on ICB Deployment

Saturday 20 March 2021

22h30 Mainframe Migration Deployment Starts

Sunday 21 March 2021

Continuation of migration activities

Sunday 21 March 2021

23h00 JSE Starts Data Reconciliation

02h00 Go/No Go Decision (Dependent on data reconciliation)

Monday 22 March 2021

07h30 Comms to Market

08h30 – 10h30 JSE Starts Network Switchover activities

11h30 -14h00 Member Testing

Tuesday 23 March 2021

We are Live!

AGENDA - JSE Mainframe Migration/ICB Deployment

- ICB Deployment

  - Deployment on Saturday 20 March 2021 after completion of batch run for 19 March 2021

  - Deployment across all impacted JSE Systems

  - Key BDA Impacts

    - XML Statements – Testing by Service Providers

    - New 8 Character ICB Sector codes added to Dissemination Card Codes 92, 95 and 96 – Test data provided

  - No Member testing/involvement on Saturday 20 March 2021

  - **Effective date 23 March 2021 in South Africa**

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JSE Mainframe Migration – Go-Live Member Involvement

- Go Live schedule for Monday 22 March 2021

  - 08h30 to 11h30

    - JSE network switch over and internal testing

  - 11h30 to 14h00

    - Brokers connect to mainframe and log-on to BDA (Including branch offices)

    - Brokers can access BDA and validate user access is correct

    - JSE re-spool ERD reports for selected brokers

    - Uploads – Optional testing as any uploads will be in production

    - Screen Scrapping – Optional as any updates done is in production

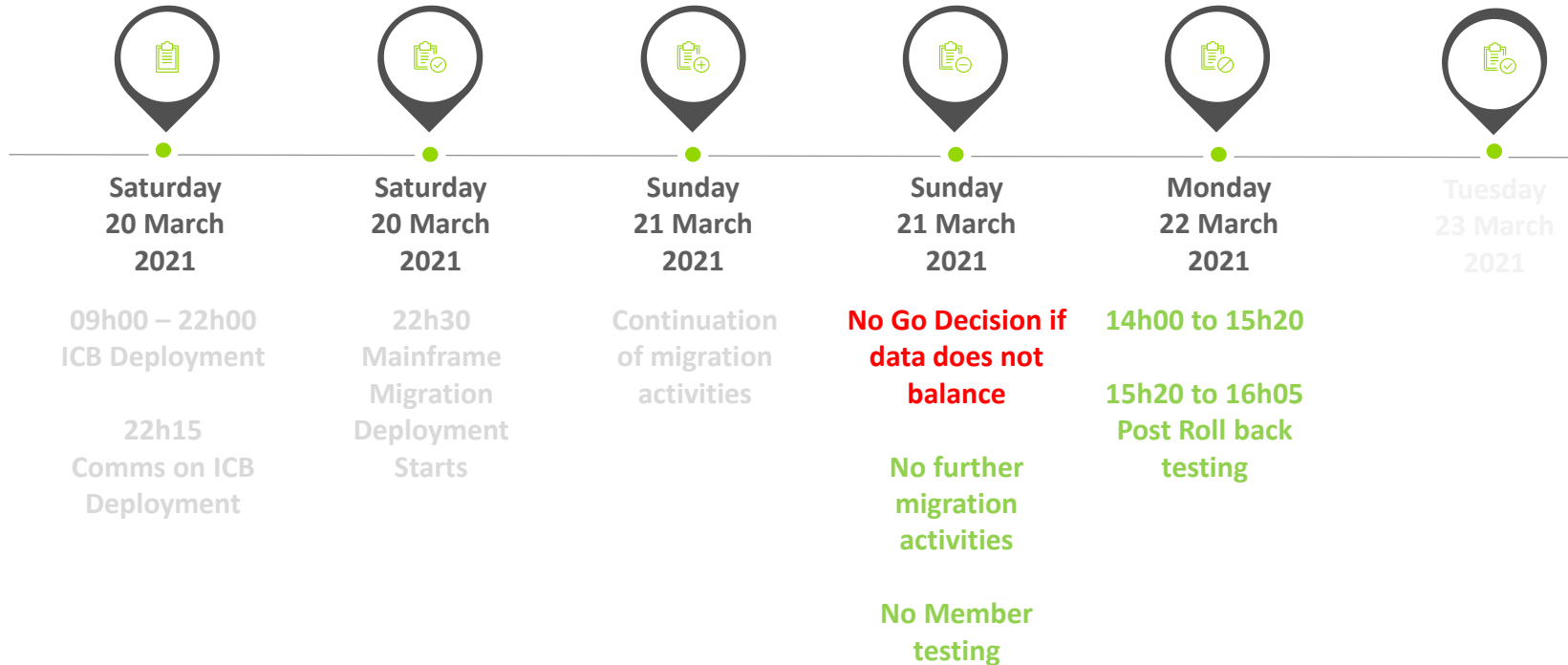   - Brokers can select +- 10 client/stock accounts to check

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JSE Mainframe Migration – Go-Live
Member Involvement

- Technical support staff availability
  - Trouble shooting may need to happen between JSE IT resources and Broker IT resources (It is advisable to have both network and application resources available or on standby).

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JSE Mainframe Migration – Go Live Market Communication

- Communication schedule during Go-Live week-end

- Saturday 20 March 2021

    - 09h00 – Confirmation that ICB deployment activities have started

    - 22h00 - Confirmation that ICB deployment and testing activities completed and migration activities to commence

- Sunday 21 March 2021

    - 09h00 – Status Update

    - 13h00 – Status Update

    - 22h00 – Status Update

- Monday 22 March 2021

    - 08h00 – Confirmation that JSE on track to start network switch-over activities

    - 10h30 – Confirmation that broker testing to commence at 11h30

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JSE Mainframe Migration Timeline – Roll back

Saturday 20 March 2021	Saturday 20 March 2021	Sunday 21 March 2021	Sunday 21 March 2021	Monday 22 March 2021	Tuesday 23 March 2021
09h00 – 22h00 ICB Deployment	22h30 Mainframe Migration Deployment Starts	Continuation of migration activities	**No Go Decision if data does not balance**	**14h00 to 15h20**	
22h15 Comms on ICB Deployment			**No further migration activities**	**15h20 to 16h05 Post Roll back testing**	
			No Member testing		

AGENDA - JSE Mainframe Migration

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- UAT Testing Feedback
- Dress Rehearsal Feedback
- Go-Live Deployment
  - Dates and Timelines
  - ICB Deployment
  - Go Live - Member Involvement
- Data Reconciliation
- Questions

JSE Mainframe Migration – Data Reconciliation

- Datasets to be reconciled
  - General Ledger
  - Account Balances (Trading)
  - Account Balances – Other (I, F, Coll, MMKT etc.)
  - Open Deals
  - Scrip by Location
  - PFV Holdings
  - SLB & Collateral

JSE Mainframe Migration – Data Reconciliation

- Process to be followed
    - Extract data after BDA batch completed Saturday morning (Existing Mainframe)
    - Extract data after migration activities completed to copy data (New Mainframe)
    - Run automated recon program
    - Create output file with differences per dataset
    - JSE will investigate any differences
        - (JSE will have access to both old and new mainframe)
    - All old & and new mainframe extracts will be provided to members
    - Members can keep data for audit purposes
    - Data files will be placed on IDP for members to download

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JSE Mainframe Migration – Data Reconciliation

- How will data recon differences be managed?
  - JSE will investigate all differences and identify corrective action to align data
  - JSE will inform affected members if any differences and action to be taken by the JSE
  - Each member must please provide CSC with your main contact for Monday in the event the JSE needs to engage on data recon issues
  - Must be person that that can approve any actions JSE may have to take to rectify data differences

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- UAT Testing Feedback

- Dress Rehearsal Feedback

- Go-Live Deployment

  - Dates and Timelines

  - ICB Deployment

  - Go Live - Member Involvement

- Data Reconciliation

- Questions

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Thank You