Overview

Tuesday, December 24, 2024 9:01 AM

Assessment **GL String**: 20020-01000-USASS800-101800

++

Treasury x RAD Prop...

Treasury x RAD - Nex...

Next project to follow: **Corporate Security**

++

From: Alex Schmidt <alex_schmidt@uhg.com>
Sent: Wednesday, December 18, 2024 12:09 AM
To: Hirsch, Marilyn V <marilyn.hirsch@uhg.com>; Mattson, Courtney O <courtney.mattson@uhg.com>; Reed Farha, Rebecca C <rebecca_c_reed@uhg.com>; Jonczyk, Michael <michael_jonczyk@uhg.com>; Eichelman, Andrew B <andrew_b_eichelman@uhg.com>
Cc: Rickberg, Ingrid <ingrid.rickberg@uhg.com>; Schutter, Janice A <janice_schutter@uhc.com>; Keis, Patrick D <patrick_d_keis@optum.com>; Ziegenfuss, Joe <joe_ziegenfuss@optum.com>; Mukerjee, Probir K <probir_k_mukerjee@optum.com>; Gehlen, Jason <jason.gehlen@uhg.com>
Subject: Treasury x RAD - Next Steps (Project Medici)

Hi folks,

Thank you for a productive and insightful session last week. Your input was essential in helping me understand how RAD could deliver **an Analytics Platform as a Service (AaaS)** to Treasury, providing streamlined, forward-looking analytics to drive better decisions and efficiency.

The goal of our session was to take a user-centric approach to identifying your challenges and opportunities. This foundation allows me to scope the right solution and set the stage for a long-term roadmap that prioritizes actionable insights, predictive capabilities, and trusted reporting. If interested you'll find a brief recap below my signature.

For now I need to schedule a final set of working sessions that take me "***soup to nuts***" on your critical reports and related data stacks you want for 2025; then I can present a resource SOW. Please don't hesitate to share any additional thoughts or priorities ahead of that discussion.

Forward Plan: Building the AaaS Roadmap to "Optimize Cash Effectively"

Phase 1: Finalize Scope (3-4 Weeks)
- **Clarify Priorities:** Align on the top 3-5 reporting outputs Treasury needs first (and timing).
- **Audit Current State:** Assess systems, data sources, workflows, and tools specific to these outputs.
- **Define Roles:** Establish responsibilities across Treasury, partners like FP&A, and RAD for delivering AaaS successfully.
- **Model Solutions:** Architect Analytics pipeline based on toy-model versions of key databases and front-end BI products.

Follow-Up Session:
- **Purpose:** Present the SOW, priorities, and resource needs.
- **Focus:** Validate outputs, timelines, and ownership to move into planning.

Phase 2: Resource and Fund (TBD)
- Secure infrastructure and resourcing investments for people, tools, and processes.
- Confirm funding to enable phased execution, starting with priority reporting outputs.

Phase 3: Build and Deliver (TBD)
- **Address Data Silos:** Integrate critical data sources into RAD's cloud environment.
- **Automate Reporting:** Pilot automated solutions for key reports (e.g., cash flow, liquidity).
- **Deliver Insights:** Develop predictive models and forward-looking dashboards to enable strategic decisions.

Looking forward to working with you to deliver an Analytics Platform as a Service that supports Treasury's strategic goals.

Best,
Alex

Meeting Recap

1. Problems Identified:
- **Data Silos:** Disconnected systems and duplication inhibit agility and efficiency.
- **Data Completeness & Timing:** Delays and inaccuracies undermine decision-making.
- **System Performance:** Limitations slow processes and increase manual work.
- **Backward-Looking Reporting:** A lack of proactive, predictive insights limits strategic responsiveness.

2. Vision for Success:
Treasury leadership envisions a future where:
- **Insights are Actionable:** Better decisions on cash holdings, borrowing, and risk management.
- **Reporting is Predictive:** Proactive diagnostics and forecasts reduce surprises.
- **Data is Trusted and Simplified:** Streamlined reporting builds confidence and reduces complexity.

3. Prioritized Outputs:

- **Cash Management:** Visibility into assets, liabilities, and funding needs.
- **Risk & Liquidity Analysis:** Dynamic tools to identify exposures and optimize liquidity.
- **Simplified Decision Support:** Actionable reporting for trade-offs and relative value analysis.

4. Path Forward:

- **Data Sources:** Integrate key platforms like Quantum, ATOM, and EPM into a centralized environment.
- **Processes:** Streamline forecasting, reconciliation, and reporting workflows.
- **Tools:** Optimize and consolidate foundational tools like Power BI and SQL for maximum efficiency.

People: Align roles across Treasury, partners like FP&A, and RAD to support execution and outcomes.

Introduction

Wednesday, December 25, 2024 6:12 PM

Opportunity ID: O704231
Opportunity Name: RAD Treasury Assessment
+++
Alex Schmidt
Patrick Whitmer
Jason Gehlen
Geoffrey Crossley
Brad Gerdin
Sandra Jannetty

+++

RE: Assessment work for the Treasury Analytics

Malhotra, Dinesh
To Cheema, Dave
Cc Shin, John S; Malhotra, Dinesh
Retention Policy UHGInbox (90 days) Expires 3/23/2025
Follow up by Monday, December 23, 2024 5:00 PM.
This message was sent with High importance.

Reply | Reply All | Forward
Mon 12/23/2024 1:36 PM

Dave- thanks for the update

1. I know he hasn't approved budget for Implementation phase. Hence, we are trying to secure ECIF funding to maintain the momentum
   a. Alex doesn't want to lose the momentum – and is looking into options as well
2. Alex and I spoke on Friday – and I had offered him to do a rapid assessment for the Treasury scope
   a. Treasury reporting is 100% manual – per Alex, there are no systems
   b. Assessment will require a different lens – more from capturing the high-level requirements scope of reporting done via Excel, data sources used, high-level entity model and ETL scope, high-level quantification of manual effort for various tasks on a regular basis etc.
   c. Using these h/l requirements, define the future state roadmap how the RAD ecosystem can be expanded and utilized to meet the business needs of the Treasury reporting team. And do so in a manner such that RAD database becomes a SSOT for Treasury and other Finance functions that could get layered in over a period of time
   d. I have requested Alex to secure small funding to pay for this rapid assessment over 3 weeks or so

Please put time on the calendar for Jan 2 for 3 of us to talk through this.

Best,
Dinesh Malhotra
M: +1 773-398-7713
+++

RAD Data Modernization Project Extension - Treasury

Alex Schmidt
To Malhotra, Dinesh; Cheema, Dave; Shin, John S
Cc Whitmer, Patrick; Gehlen, Jason
Retention Policy UHGInbox (90 days) Expires 3/24/2025
This message was sent with High importance.
Treasury x RAD Proposal.vD.pdf 145 KB
Treasury x RAD - Next Steps (Project Medici) Outlook item

Reply | Reply All | Forward
Tue 12/24/2024 12:24 AM

Hi Dinesh, Dave, and John,

I have Marilyn's buy-in for a scoping effort like we did in Phase 0 for RAD for Treasury.

I headlined that it would likely cost around $25k mark. I know ours was less, but just in case I added buffer.

This Project is going to be much different than what we did for RAD for a couple reasons; as Treasury…:
1. has far less mature data capability infrastructure
2. does not have an Analytics team (***yet… idea is to fund more resources to us***)
   - has the ideal opportunity to use our infrastructure, workflows, and managerial headcount
3. has access to rather sensitive banking data
4. has on the one hand a very complex/diverse source ecosystem **yet** on the other hand much less complexity and sophistication needs for Analytics [and no Product work]

In our sessions, I was able to delegate to Patrick and Grant largely; this won't be possible, as they are not familiar with Treasury. However, Patrick and I will need to be heavily involved in the scoping discussions and meetings.

I can get you more up to speed on background and current state of reporting when you have time.

If we can get this in the books; I think Corporate Security might be not far behind!

Best,
Alex
+++

Wed 12/18/2024 12:09 AM

Alex Schmidt

Treasury x RAD - Next Steps (Project Medici)

To Hirsch, Marilyn V; Mattson, Courtney O; Reed Farha, Rebecca C; Jonczyk, Michael; Eichelman, Andrew B

Cc Rickberg, Ingrid; Schutter, Janice A; Keis, Patrick D; Ziegenfuss, Joe; Mukerjee, Probir K; Gehlen, Jason

You forwarded this message on 12/18/2024 2:04 PM.

Hi folks,

Thank you for a productive and insightful session last week. Your input was essential in helping me understand how RAD could deliver **an Analytics Platform as a Service (AaaS)** to Treasury, providing streamlined, forward-looking analytics to drive better decisions and efficiency.

The goal of our session was to take a user-centric approach to identifying your challenges and opportunities. This foundation allows me to scope the right solution and set the stage for a long-term roadmap that prioritizes actionable insights, predictive capabilities, and trusted reporting. If interested you'll find a brief recap below my signature.

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Follow-Up Session:

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Looking forward to working with you to deliver an Analytics Platform as a Service that supports Treasury's strategic goals.

Best,
Alex

Approvals

Tuesday, January 21, 2025 6:54 PM

RE: SOW Approval requested: RAD Treasury Assessment

Alex Schmidt
To Cheema, Dave
Cc GoDigitalfromHello; Shin, John S; Johnson, Scott D
Retention Policy UHGInbox (90 days) Expires 4/21/2025

Reply | Reply All | Forward

Tue 1/21/2025 4:16 PM

Thanks Dave,

The SOW captures the work quite well, I believe my added color today during our meeting doesn't necessarily need to be added in – largely semantics such as "Treasury Analytics" team, which doesn't exist 😉

We are good to go!

Best
Alex

From: Cheema, Dave <dave.cheema@optum.com>
Sent: Friday, January 17, 2025 3:58 PM
To: Alex Schmidt <alex_schmidt@uhg.com>
Cc: GoDigitalfromHello <godigitalfromhello@uhgazure.onmicrosoft.com>; Shin, John S <john.shin@optum.com>; Johnson, Scott D <scott.d.johnson@optum.com>
Subject: RE: SOW Approval requested: RAD Treasury Assessment

I'm sorry, here it is...

Thanks & regards,
Dave Cheema

From: Alex Schmidt <alex_schmidt@uhg.com>
Sent: Friday, January 17, 2025 5:35 PM
To: Cheema, Dave <dave.cheema@optum.com>
Cc: GoDigitalfromHello <godigitalfromhello@uhgazure.onmicrosoft.com>; Shin, John S <john.shin@optum.com>; Johnson, Scott D <scott.d.johnson@optum.com>
Subject: RE: SOW Approval requested: RAD Treasury Assessment

Hi Dave,

Where is the attached SOW?

We are good to go financially, but just wanted to peak at it.

RE: SOW Approval requested: RAD Treasury Assessment

Alex Schmidt
To Cheema, Dave
Cc GoDigitalfromHello; Shin, John S; Johnson, Scott D
Retention Policy UHGInbox (90 days) Expires 4/21/2025

Reply | Reply All | Forward

Tue 1/21/2025 4:16 PM

RAD Treasury Assessment
SOW & Pricing Proposal

Hello Alex,

Thank you for choosing the Optum Advisory– Digital Transformation team to help support for your continued effort to modernize RAD Data Platform. Attached you will find the SOW & Pricing Proposal for the **RAD Treasury Assessment** for the duration of **4 weeks**.

Please let me know if you have questions. I appreciate your trust in our team to support you.

Snapshot:

- Ask: **RAD Treasury Assessment**
- Duration: **1/20/2025 - 2/21/2025**
- Total Cost Estimate: **$25,000**

Next Steps:

1. **Review** the attached SOW for scope, pricing, terms, and conditions
2. If you agree with the terms, simply respond to this email with **"Reviewed and agree."**
3. You will receive an email notification from Optum's 'iTRAC Tool' for your **formal online approval** of this SoW
4. The **Finance team** member too need to provide their approval via 'Intake Tool'.
   Please confirm the name of your Finance Team member along with the GL string for billing.
   a. GL String:
      - BU: 20020
      - OU: 01000
      - Dept: 101800
      - Location: USASS800
   b. Finance Contact: Courtney O Mattson| courtney.mattson@uhg.com

OAS Digital Transformation Key Business and Technical Contacts:

- John Shin
- Dinesh Malhotra
- Dave Cheema

++

Optum Salesforce <optumsalesforce@optum.com>
To Cheema, Dave
Retention Policy UHGInbox (90 days) Expires 4/30/2025

Reply | Reply All | Forward

Thu 1/30/2025 12:23 AM

Hi Dave, catch up on activity from the past day.

To Me

Opportunity: RAD Treasury Assessment

Opportunity ID	O704231
Account Name	UHG Corporate
Opportunity Type	New Business (NB)
Primary Quote	Q-712114
Opportunity Owner	Dave Cheema
PTRR	USD 25,000.00

Jaana Debnam to Optum Only
Wednesday, January 29, 2025 10:27 AM

@Dave Cheema
Your opportunity has been Approved.

Account: UHG Corporate
Opportunity Name: RAD Treasury Assessment
Opportunity ID: O704231

++

Term Sheet Update for O704231, RAD Treasury Assessment

Welter, Brett on behalf of Advisory Operations
To Cheema, Dave
Cc Clements, Bob; Welter, Brett; Quickstad, Adam A
Retention Policy UHGInbox (90 days) Expires 5/29/2025

Reply | Reply All | Forward

Fri 2/28/2025 3:23 PM

Term Sheet Process Update
Please see below for the current status of your term sheet. You will be notified as your term sheet progresses through the approval process. Please reply to bob.clements@optum.com with any questions.

Current Status:

Fully Executed

Comments or Follow Up Items:

Approval Progress
*Pre-Approval Requested:
Submitted for Approval: 2025-01-22
Purchaser Business Approved: 2025-01-22
Purchaser Finance/Acct Approved: 2025-01-22
Provider Accounting Approved: 2025-01-22
OI Finance DOA Review Complete: 2025-01-22
Provider Finance Approved: 2025-01-22
**Not all Purchaser Finance Contacts require a pre-approval process so this step may be skipped for some term sheets*

Thank you,
Optum Advisory Operations

++

RE: Pricing Approval Request - O704231 RAD Treasury Dev Test & Deploy

Matousek, Matthew M
To Cheema, Dave
Cc GoPayerTechnology; Shin, John S
Retention Policy UHGInbox (90 days) Expires 6/16/2025

Reply | Reply All | Forward

Tue 3/18/2025 10:31

approved

From: Cheema, Dave <dave.cheema@optum.com>
Sent: Tuesday, March 18, 2025 9:58 AM
To: Matousek, Matthew M <matthew.matousek@optum.com>
Cc: GoPayerTechnology <GoPayerTechnology@uhgazure.onmicrosoft.com>; Shin, John S <john.shin@optum.com>
Subject: Pricing Approval Request - O704231 RAD Treasury Dev Test & Deploy

Hi Matt,

Please review and approve the attached Pricing Proforma for the RAD Treasury Dev Test & Deploy project.

The attached Pricing Proforma is for the implementation phase of the RAD Treasury Data Modernization project, which is a part of a larger RAD Data Modernization program. This proje will last 6 months. This phase's pricing is based on the findings of the assessment phase of the same project.

Please review the **fixed-fee w/ 10% contingency** pricing and provide your approval as appropriate.

The financials are as follows:

Project Salesforce Product Code Deal Type	Technology-Tech Digital Fixed Fee - Monthly		
Total Revenue	$	365,285	
Total Engagement Margin	$	79,046	22%
Target EM - Resource Mix			31%
Target EM - Project TOW			46%
Estimated Travel	$	-	0%
Pass Through / Consulting Product	$	-	
All in Revenue	$	365,285	22%
Estimated IOI	$	66,886	18%

Please let me know if you have any questions/concerns. Thanks in advance.

Regards,
Dave Cheema

++

Term Sheet
Update fo...

Term Sheet
Update fo...

Term Sheet Update for O705067, RAD Treasury Reporting & Analytics - Cloud Data Foundation

AO
Welter, Brett on behalf of Advisory Operations
To Cheema, Dave
Cc Clements, Bob; Welter, Brett; Quickstad, Adam A
Retention Policy UHGInbox (90 days) Expires 8/3/2025

Reply | Reply All | Forward
Mon 5/5/2025 2:01 P

Term Sheet Process Update
Please see below for the current status of your term sheet. You will be notified as your term sheet progresses through the approval process. Please reply to bob.clements@optum.co with any questions.

Current Status:

Fully Executed

Comments or Follow Up Items:

Approval Progress
*Pre-Approval Requested: 2025-04-24
Submitted for Approval: 2025-04-25
Purchaser Business Approved: 2025-04-29
Purchaser Finance/Acct Approved: 2025-04-30
Provider Accounting Approved: 2025-04-30
OI Finance DOA Review Complete: 2025-05-05
Provider Finance Approved: 2025-05-05
**Not all Purchaser Finance Contacts require a pre-approval process so this step may be skipped for some term sheets*

Thank you,
Optum Advisory Operations

Approach

Wednesday, December 25, 2024 6:53 PM

Data sources

Name	Location	Current access mechanism	Access Credentials	Frequency	Data Source type	Size	Documentation	Data Quality	Data Model (DDL)	Integration Method	Technology(s)	Related Cost	Current Use Cases	Potential gaps/opportunities	Challenges	Workarounds	Desired State	Comments

Additional Assessment Aspects:

1. Explore existing data landscape including data sources, data quality, data model, data integration methods, technologies, and related costs
2. Current business use cases being addressed
3. Operational model and related costs
4. Potential gaps / opportunities for business and operations

---

5. Effectiveness: achieving its intended purpose and meeting user needs
6. Efficiency: resource utilization, such as CPU, memory, and disk usage
7. Reliability: consistency and reliability over time
8. Security: authentication, authorization, data encryption, and access controls
9. Scalability: can system meet demand elasticity
10. Maintainability: ease of maintaining and updating the system
11. Compatibility: ability to integrate with existing infrastructure and support interoperability.
12. Cost-effectiveness: evaluate TCO and explore efficiency opportunities
13. Compliance: compliance with relevant laws, regulations, and industry standards
14. Performance: pertains to the speed within which it can complete a unit of work
15. User Experience: ease of use, intuitiveness, and accessibility
16. Integration: ability to integrate with other systems or platforms
17. Stakeholder Feedback: feedback from users, administrators, and other stakeholders

++

Approach to data platform migration

- Assessment
- Design
- Development
- Testing
- Deployment
- Production Acceptance Testing
- Sunset existing processes

Assessment

Purpose

Determine the size of the problem
Complexity of the problem
Pattern types
Note: Assessment does not concern with the implementation details - that comes in the design phase

What we need

Source System	Name	Data Source Type (Flat file, Excel, REST API, SQL/Oracle, ECG, JSON, etc.)	Frequency (daily, weekly, monthly, quarterly, yearly)	Location	Comments

Data folders structure

Treasury

- Quantum
  - Bank Balances
    - 1 File of type Excel/CSV, 1 time, daily
  - Bank Transactions
    - 1 File of type Excel/CSV, 1 time, daily
  - Target balance and concentration cash flow
    - 1 File of type Excel/CSV, 1 time, daily
- ePAM
  - CEQ Balances
    - 1 File of type Excel/CSV, 1 time, daily
  - Interest Rates
    - 1 File of type Excel/CSV, 1 time, daily, or 4 emails, daily - Need to discuss logistics with Brian P Blake
- ICS
  - 1 File of type Excel/CSV, 1 time, monthly
- PeopleSoft
  - 1 File of type Excel/CSV, 1 time, daily
- Dividends
  - 1 File of type Excel/CSV, 1 time, monthly

Total: 11 files

++

1. 11 data sources
2. Create solution Definition & design
   a. Create high level architecture diagram
3. Create Dev, Test, Deploy
   a. Create database in Storage Tenant
   b. Create schema(s)
   c. Create landing zone
      i. Use folder structure provided, with Hot, Cool, Cold, and Archive tiers
         1) Hot tier - Data is accessed or modified frequently.
         2) Cool tier - Data is infrequently accessed or modified, should be stored for a minimum of 30 days
         3) Cold tier - An online tier, for storing data that is rarely accessed or modified, should be stored for a minimum of 90 days
         4) Archive tier - An offline tier for storing rarely used data, can take hours to retrieve, data should be stored for a minimum of 180 days
   d. Create medallion architecture tables and views
   e. Create parameterized data pipelines
   f. Conduct unit testing
   g. Migrate historical data
   h. Process delta daily datasets
   i. Build out production environment
   j. Migrate data to production
   k. Create system testing
4. Conduct Production Acceptance Testing (mainly client, OA support only)
5. Decommission existing like processes

Emails

Friday, February 7, 2025 2:28 PM

RE: Cash Forecast Reporting Design - What should the reports look like?

Alex Schmidt
To Jannetty, Sandra; Mattson, Courtney O; Reed Farha, Rebecca C; Runice, Paul; Jonczyk, Michael; Willett, Eric M; Blake, Brian P; Eichelman, Andrew B; Rickberg, Ingrid; Cheema, Dave; Gehlen, Jason; Whitmer, Patrick
Cc Higgins, Michael; Akingbade, Omolola O
Retention Policy UHGInbox (90 days) Expires 5/7/2025

Reply | Reply All | Forward | ...

Thu 2/6/2025 5:13 PM

Hi folks,

Below our detailed agenda for tomorrow.

Best,
Alex

Treasury Analytics Design Thinking Workshop Series | Part 1

Objective: Define and design Treasury's '***Cash Management***' dashboards, reports, and underlying data models using a structured **Design Thinking** approach. These workshops will ensure that analytics outputs are user-centric, functional, and built on the right data.

Workshop 1: User Experience & Needs Mapping

Purpose: Define what the dashboards, reports, and models need to **do**—identifying key use cases, user needs, and decision-making processes that require analytics.

Duration: 2 hours
Attendees: Treasury, RAD, OAS
Format: Group session with brainstorming, prioritization exercises, and interactive discussion

Agenda

Time	Activity	Details
0-10 min	**Introduction & Workshop Framing**	Workshop goals: defining critical use cases, analytics needs, and prioritizing reports/models.
10-30 min	**Identifying Key Decisions That Require Analytics**	- Participants to list **major financial decisions** requiring analytics. - Group categorizes responses (e.g., liquidity planning, risk management, working capital). --- **Build Personas**
30-60 min	**Mapping Current Reporting Pain Points**	- Discuss challenges with existing reports and dashboards. - Identify gaps between current vs. desired insights.
60-90 min	**Prioritizing Analytics Needs**	- Rank **top 5 actions that have analytics needs** based on business impact. - Identify real-time, on-demand, or periodic actions.
90-120 min	**Defining Success Metrics for Analytics Outputs**	- ***"What defines a 'good' report/dashboard/model?"*** - Agree on clarity, accuracy, timeliness, and usability cri-teria.

Expected Outcomes:

✅ List of **key financial decisions** that require analytics.
✅ **Prioritized reporting needs** with clear impact areas.
✅ **Defined success criteria** for reports/dashboards/models.

-----Original Appointment-----
From: Jannetty, Sandra <sandra_jannetty@uhg.com>
Sent: Friday, January 31, 2025 1:57 PM
To: Jannetty, Sandra; Mattson, Courtney O; Reed Farha, Rebecca C; Runice, Paul; Jonczyk, Michael; Willett, Eric M; Blake, Brian P; Eichelman, Andrew B; Rickberg, Ingrid; Alex Schmidt; Cheema, Dave; Gehlen, Jason; Whitmer, Patrick
Cc: Higgins, Michael; Akingbade, Omolola O
Subject: Cash Forecast Reporting Design - What should the reports look like?
When: Friday, February 7, 2025 4:00 PM-5:00 PM (UTC-05:00) Eastern Time (US & Canada).
Where: Microsoft Teams Meeting

Microsoft Teams Need help?

Join the meeting now

Meeting ID: 275 487 430 33

Passcode: RB92Wp2e

Dial in by phone

+1 952-222-7450,,640051382# United States, Minneapolis

Find a local number

Phone conference ID: 640 051 382#

Join on a video conferencing device

Tenant key: teams@optum.onpexip.com

Video ID: 117 389 348 55

More info

For organizers: Meeting options | Reset dial-in PIN
Org help

++

Individual Design Sessions

Alex Schmidt
To Jonczyk, Michael; Mattson, Courtney O; Runice, Paul; Reed Farha, Rebecca C; Barton, Michael A; Jannetty, Sandra; Blake, Brian P; Eichelman, Andrew B; Willett, Eric M
Cc Rickberg, Ingrid; Higgins, Michael; Gehlen, Jason; Akingbade, Omolola O; Whitmer, Patrick; Cheema, Dave
Retention Policy UHGInbox (90 days) Expires 5/12/2025
ⓘ This message was sent with High importance.

Reply | Reply All | Forward | ...

Mon 2/10/2025 11:32 PM

Good evening Team,

I will send out calendar holds shortly; please feel free to bump them around to suit your schedule, my initial goal is to meet as soon as possible.

Kindly forward any reporting you would like to in-scope for the purpose of "Optimizing Cash Effectively" to Sandy so she can file it with us.

Stakeholder Sessions

Each session will focus on a **specific function within Treasury** to ensure **customized solutions** for your needs.

Stakeholder Group	Focus Area	Key Person

Each session will focus on a **specific function within Treasury** to ensure **customized solutions** for your needs.

Stakeholder Group	Focus Area	Key Person
Investment Team	Maximize value of investable assets and protect capital	Courtney Mattson
Statutory Capital Management	Optimize statutory capital towards credit ratings and maximize cash flow	Paul Runice
Enterprise Risk Management	Identify, prioritize, and measure capacity to withstand risks	Michael Barton
Capital Markets and Treasury Accounting	Manage capital structure, financial risks, and fund the enterprise	Michael Jonczyk
Cash Management	Ensure bank accounts are funded and optimize cash levels	Eric Willett
Financial Planning and Analysis (FP&A)	Projections, budgeting, forecasting, and providing explanations for variances	Andrew Eichelman
Treasury Solutions	Establish and maintain payment and cash flow infrastructure	Rebecca Reed Farha
Treasury Operations	Manage daily cash flow through bank accounts and anticipate future excess cash	Sandra Jannetty

Session Plan

The **mini session (max. 45 minutes)** will focus on your **specific role within Treasury** to capture your unique needs for analytics. I will push to align on what specific reports, dashboards, and models should *look like*, *do*, and *interact like*.

STEPS	GUIDING QUESTIONS	EXPECTED OUTCOME
1. ROLE & CONTEXT	*What Treasury decisions rely on your reporting/dashboards?*	Clear understanding of user needs.
2. STATUS QUO REVIEW	***IF YOU HAVE CURRENT REPORTING/EXAMPLES*** *– How does this reporting meet your needs?*	Critique of current state reporting w/ examples.
3. IDEAL FUNCTIONALITY	*What insights should these reports provide? How should it enable decision-making?*	Defined goals for analytics outputs.
4. VISUAL & INTERACTION DESIGN	*What format works best? What filters/drilldowns are needed?*	Details for sketches/wireframes of key reports.
5. DATA & INTEGRATION	*What data is needed? Where does it come from?*	Data sources & potential integration gaps.
6. WRAP-UP	*Open Time for Feedback and/or Planning*	Confirmation of any additional/next steps.

Deliverables for Phase 2

At the end of these sessions, based on your feedback and requirements we will build:

- **Mockups** of your reports, dashboards, and models.
- **A list of required data elements** mapped to source systems.
- **A planning document** for prioritizing and acquiring the Treasury data.

Best,
Alex

From: Alex Schmidt
Sent: Monday, February 10, 2025 3:36 PM
To: Jannetty, Sandra <sandra_jannetty@uhg.com>; Mattson, Courtney O <courtney.mattson@uhg.com>; Reed Farha, Rebecca C <rebecca_c_reed@uhg.com>; Runice, Paul <paul_runice@uhg.com>; Jonczyk, Michael <michael_jonczyk@uhg.com>; Willett, Eric M <eric_m_willett@uhg.com>; Blake, Brian P <brian_p_blake@uhg.com>; Eichelman, Andrew B <andrew_b_eichelman@uhg.com>; Rickberg, Ingrid <ingrid.rickberg@uhg.com>; Cheema, Dave <dave.cheema@optum.com>; Gehlen, Jason <jason.gehlen@uhg.com>; Whitmer, Patrick <patrick_whitmer@uhc.com>; Akingbade, Omolola O <lola_akingbade@uhg.com>; Higgins, Michael <michael.higgins@uhg.com>; Barton, Michael A <michael_barton@uhg.com>
Subject: RE: Workshop 1

Hi folks,

Thanks again for your time and patience on Friday; it was a great ending to a long week!

Workshop Recap

1. **Understanding Treasury's Cash Management Functions** – Mapping out the roles, objectives, and priorities of different Treasury teams.
2. **Defining Key Analytics Needs** – Exploring what decisions Treasury teams need to make and how analytics can support them.
3. **Identifying Challenges in Reporting & Data** – Highlighting gaps in current dashboards, variance analysis, and data sources.

Next Steps

1. **Execute Individual Design Sessions** – Align on key stakeholders, finalize session dates, and workshop.
2. **Start Mockups Based on Workshop Insights** – Create wireframes for review.

Next Steps

1. **Execute Individual Design Sessions** – Align on key stakeholders, finalize session dates, and workshop.
2. **Start Mockups Based on Workshop Insights** – Create wireframes for review.
3. **Hold a Follow-Up Group Session** – Consolidate feedback and refine outputs before moving into data integration hierarchy planning.
4. **Prioritize which dashboards and features to prototype first** (e.g., **Cash Forecasting & Liquidity Management** as MVP).

Concurrently we are already kicking off defining data pipelines for ingesting key Treasury datasets into RAD's cloud with Data Engineering & IT.

@Jannetty, Sandra has been working on corralling your team's cash-respective status quo reporting, please do supplement if you don't think your functions are covered.

For record-keeping I will also leave you with a high-level recap of my takeaways below my signature. I am also going to begin pushing key documentation to our Teams channel and continuously update – first example: Treasury Personas.xlsx

Please keep an eye out for my meeting invite to you personally, it will include a full agenda and mental preparation guide.

Lastly, this is a continuous work of art, so please always feel free to comment and nit-pick anywhere, as we iterate to getting to a full-truth and final scoping. Consider everything a draft until we collectively agree.

Thanks,
Alex

Executive Summary of Key Findings

Objective of Workshop #1:
This session aimed to **map out the ideal future state** of Treasury analytics by identifying key decision-making processes, reporting needs, and data challenges. The goal was to take a **user-centered design approach** to ensure that the final dashboards, reports, and data science models enable **actionable insights and proactive financial management**.

Key Themes from the Discussion

1. Treasury's Core Analytics & Decision Areas

Treasury leaders outlined their key functions, emphasizing areas where **data-driven insights** are critical:

- **Cash & Liquidity Management:** Understanding cash positioning, forecasting cash needs, and optimizing liquidity.
- **Risk Management & Hedging:** Identifying exposure, tracking hedge effectiveness, and mitigating financial risks.
- **Variance Analysis & Scenario Planning:** Explaining deviations from expected cash flows and simulating different financial scenarios.
- **Investment & Capital Markets:** Managing short-term investments, aligning funding strategies, and optimizing returns.

2. Current Reporting & Data Challenges

The Treasury team described several **pain points** that hinder their ability to make fast, informed decisions:

- **Data Silos & Fragmentation:** Multiple systems (Quantum, ATOM, EPM) result in disconnected insights.
- **Backward-Looking Reporting:** Many reports focus on *historical reconciliation* rather than *future-oriented decision-making*.
- **Manual Workflows:** Data extraction and reconciliation still require **significant human effort**, leading to inefficiencies.
- **Lack of Standardized Variance Analysis:** No common framework exists to **explain cash movements and deviations** across teams.

3. Defining Success: What the Future State Should Look Like

Treasury leaders defined success as:

- **Proactive, forward-looking analytics** (cash forecasting, risk simulations).
- **Actionable insights** that drive **better financial decisions** (not just static reports).
- **Automated, real-time reporting** with self-service drilldowns.
- **Standardized variance analysis** that Treasury teams can use **across all business units**.

-----Original Appointment-----
From: Alex Schmidt
Sent: Friday, February 7, 2025 12:34 PM
To: Alex Schmidt; Jannetty, Sandra; Mattson, Courtney O; Reed Farha, Rebecca C; Runice, Paul; Jonczyk, Michael; Willett, Eric M; Blake, Brian P; Eichelman, Andrew B; Rickberg, Ingrid; Cheema, Dave; Gehlen, Jason; Whitmer, Patrick; Akingbade, Omolola O; Higgins, Michael
Cc: Barton, Michael A
Subject: Workshop 1
When: Friday, February 7, 2025 12:30 PM-2:15 PM (UTC-08:00) Pacific Time (US & Canada).
Where: Microsoft Teams Meeting

Microsoft Teams Need help?

Join the meeting now

Meeting ID: 224 181 244 115

Passcode: e8N3FX9k

Join the meeting now

Meeting ID: 224 181 244 115

Passcode: e8N3FX9k

Join on a video conferencing device

Tenant key: teams@optum.onpexip.com

Video ID: 115 500 884 23

More info

For organizers: Meeting options
Org help

++

Re: Jonson, Julie R shared the folder "TBD_RITM6000195" with you

SJ Shin, John S
To Cheema, Dave

Reply | Reply All | Forward

Tue 2/18/2025 11:29 AM

Retention Policy UHGInbox (90 days) Expires 5/19/2025

You replied to this message on 2/18/2025 11:45 AM.

Start your reply all with: Will do, thanks! | Will do. | Will do, thank you. | Feedback

Please work with Patrick as needed. Let me know if there is anything you need from me.

John Shin (he/him)
Sr. Director Cloud Data Engineering & Solutions | Optum Advisory | Optum

O 1-952-833-7266
M 1-612-321-6400
john.shin@optum.com

12125 Technology Drive
Eden Prairie, MN 55344

Optum

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From: Alex Schmidt <alex_schmidt@uhg.com>
Date: Tuesday, February 18, 2025 at 11:20 AM
To: Shin, John S <john.shin@optum.com>, Whitmer, Patrick <patrick_whitmer@uhc.com>, Haugan, Grant D <grant.haugan@uhg.com>
Cc: Cheema, Dave <dave.cheema@optum.com>
Subject: FW: Jonson, Julie R shared the folder "TBD_RITM6000195" with you

Hi John, Patrick and Grant,

Would be best for your three to rally around how to get this filled in.

I will just stumble and end up asking you the questions anyway…

Best,
Alex

From: Jonson, Julie R <julie.jonson@optum.com>
Sent: Monday, February 17, 2025 8:53 PM
To: Alex Schmidt <alex_schmidt@uhg.com>; Boell, Justin P <justin.boell@optum.com>
Subject: Jonson, Julie R shared the folder "TBD_RITM6000195" with you

Jonson, Julie R invited you to edit a folder

Your Assessment Folder for 3rd party data exchange pipelines outside of the Snowflake-to-Snowflake Data Share has been created and shared with those authorized. It contains any files you provided in your ServiceNow intake request along with your assessment file, ESA-SecurityAssessmentSpreadsheet.xlsm. An SLD or detailed diagram of your application/platform must be uploaded to the folder if it was not attached to the RITM request.

Please open the assessment file (with your @optum.com account, not @optumcloud.com) when you are ready to begin and review the Instructions tab. If prompted, please click Enable Content. Be sure to complete the Assessment Level tab to see if you meet the criteria for a self-service assessment!

TBD_RITM6000195

TBD_RITM6000195

This invite will only work for you and people with existing access.

Open Share

Optum

This email is generated through UHG's use of Microsoft 365 and may contain content that is controlled by UHG.

RE: Priorities

Jannetty, Sandra
To Alex Schmidt
Cc Gehlen, Jason; Cheema, Dave; Willett, Eric M
Retention Policy UHGInbox (90 days) Expires 5/19/2025

Reply Reply All Forward
Tue 2/18/2025 11:50 AM

Thank you for this reply. No worries about yesterday.

I understand your concerns around decision making. I'm hoping that you can grab sufficient historic data to test new forecasting models against actual cashflows to see how they perform and make iterative improvements. We can all learn from this method.

I'm looking forward to taking this afternoon!

Sandy

From: Alex Schmidt <alex_schmidt@uhg.com>
Sent: Tuesday, February 18, 2025 11:36 AM
To: Jannetty, Sandra <sandra_jannetty@uhg.com>
Cc: Gehlen, Jason <jason.gehlen@uhg.com>; Cheema, Dave <dave.cheema@optum.com>
Subject: RE: Priorities

Hi Sandy,

I am sorry I didn't get to a formal response on this yesterday, it was tougher than I had anticipated without childcare for the day.

Yes, we will absolutely rally around these priorities; though we must keep an eye on the "ecosystem" such a forecasting tool/analytical capability lives in.

The risk of using predictive modeling that ultimately supports go/no-go decisions around financing are too high for us to not know "how the meat grinder works" 😊

We are in a good position to zoom into the narrowed scope now!

Best,
Alex

From: Jannetty, Sandra <sandra_jannetty@uhg.com>
Sent: Sunday, February 16, 2025 12:19 PM
To: Alex Schmidt <alex_schmidt@uhg.com>
Subject: Priorities

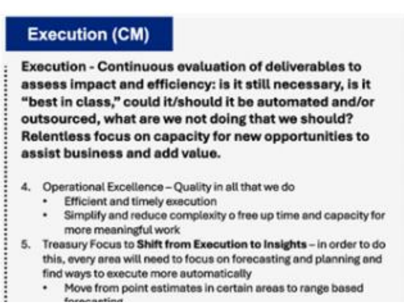
Hi Alex,

I am really enjoying working with you and the team! You're all so impressive!

I understand that the design sessions exposed a vast scope of opportunity and caused you concern over the use of Excel and the inherent risks. While you and the team digest the information from these sessions, along with the numerous reports and spreadsheets provided, I want to reinforce the priorities for us. I do think you know the priorities, I just want to make sure we're not distracted by all the opportunities in front of us.

Our first priority is for data analytics and predictive modeling to better forecast cash flows and identify excess cash. Next is Reporting for cash and cash equivalents balances and forecasted balances by bucket (DDA, Pool, MMkt, Cash Desk).

I thought it would be helpful to provide you with Courney's Goal for this initiative:



- Simplify and reduce complexity o free up time and capacity for more meaningful work

5. Treasury Focus to **Shift from Execution to Insights** – in order to do this, every area will need to focus on forecasting and planning and find ways to execute more automatically
   - Move from point estimates in certain areas to range based forecasting
   - Move towards automated cash reconciliation earlier and focus on 30, 60, 90, 13-week cash forecasting with an ability to drill down to BU levels
   - More meaningful and real-time reporting to allow for better decision making

Multi-year journey – on that journey set goals for what will be achieved this year that are measurable. Create proof points.

I'm looking forward to your report-out to the Design Team.

I'm in MN from February 18-28th. I'm bracing for the cold temperatures!

Sandy

Sandy Jannetty | Vice President, Treasury Operations & Services, UnitedHealth Group
UnitedHealthcare Center
CT039-004B, 185 Asylum Street, Hartford, CT 06103
(office) 860.702.5551 | (fax) 860.702.5565 |
(email)Sandra_jannetty@uhg.com

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RE: Quantum Data

DS Sutherland, Dawn C
To Jannetty, Sandra; Cheema, Dave
Cc Bostick, William T; Willett, Eric M; Morais, Domingos D; Alex Schmidt
Retention Policy UHGInbox (90 days) Expires 5/25/2025

Reply | Reply All | Forward | ...
Mon 2/24/2025 11:01 AM

Sandy –

See comments below based on discussions we had with Dom and Eric last week:

- Transaction Reports – If we provide "Daily" transaction reports going forward, we have no way to provide a differential report. That means, we can only provide YESTERDAY's transactions. If a file was late, and we needed to see two day's transactions for a particular bank or account, it would never appear. Business unit changes that occur mid-month would typically appear retroactively on the MTD reports, also, but would not get captured on a daily file until the day of the change.
- Balance Reports – Similar situation – If we provide daily balances, missing data or changes from the previous day would not be captured.

Thanks!
Dawn

From: Jannetty, Sandra <sandra_jannetty@uhg.com>
Sent: Monday, February 24, 2025 11:18 AM
To: Cheema, Dave <dave.cheema@optum.com>
Cc: Sutherland, Dawn C <dsutherl@uhg.com>; Bostick, William T <william.bostick@uhg.com>; Willett, Eric M <eric_m_willett@uhg.com>; Morais, Domingos D <domingos_d_morais@uhg.com>; Alex Schmidt <alex_schmidt@uhg.com>
Subject: Quantum Data

Dave,

What is the landing site where you want us to send the Quantum data to you?

Bill has collected some historical data that he is ready to transmit to you, probably via QuickConnect.

- All Transactions for December 2024 and January 2025. He will have February 2025 for you next week.
- He will soon have Daily Balances for you for these periods as well.

Please provide feedback to this entire group on your ability to handle the volume of this data as it will help inform how much history we can provide. We are considering going back to July 2024, or January 2024. We have also discussed 3 years of history, so we need to understand the value and feasibility of this. Alex is working with three years of data for two legal entities right now to do some forecasting modeling. This work will also inform the value add of each prior period to the accuracy of the forecast.

Bill is working to create a daily extract of Transactions and Balances for transmission to your landing site. These daily files will be scheduled to transfer to your landing site automatically. We are targeting to start this daily transmission in March.

Next, Bill will work on extracting bank account target balances to transfer to the landing site.

Sandy

++

Notes

Wednesday, February 12, 2025 8:02 PM

Treasury Operations: Sandra Jannetty
Brian Soller's team:
    Keis, Patrick D
    Andrews, Tim
    Probir K Mukerjee
Treasury data sources: Keis, Patrick D, Andrews, Tim, Probir K Mukerjee
Cash Management: Eric Willett

Quantum is a cash management system, comes from PeopleSoft General Ledger.
Created by FIS; has Treasury workstation; manages parts of Treasury
Quantum is used daily
SMEs: Dom Morais and Dawn Sutherland

PAM (Princeton Asset Management) is for derivatives and accounting, SME: Brian Blake
PAM is system of records for Brian & team
Has open database, have access can connect to it.
Export module is typically used to access database; a 3rd party tool. Citrix is used to connect to it
PAM is monthly

Peoplesoft SMEs: Patrick W. and Jason G.
PeopleSoft - what type of a database is it?
PeopleSoft data is stale
Only some parts of PeopleSoft are needed - a monthly job.
Average balances are more useful than month end balances
To query: Essbase - GL tool (Excel add-in) - not sure if it is really need

ATOM has bank account information and GL structure, have same thing in Peoplesoft
SME: Brian Blake to forecast cash flow, Dawn Sutherland, and Becky Reed

Need to understand what PAM and ATOM
ATOM and PAM to hold off for a while
Bloomberg something we also may need to look at it

Quantum & Forecasting Hierarchy. SME: Probir M.
    Regulated forecasting - 70-80 can go up to 400
    Non-regulated forecasting - all rolled into one
    Jillian has dividend forecasting data

Q. Is commercial paper and the debt managed in Quantum or a different system?
R. Michael Jonczyk and Brian Blake response: Yes, Quantum and Excel

International cash may be an issue. **Owen Mahani'**s?? team is using it.
Interest are another issue
+++ ++++++++++++++++++++++++++++++

Business Operation	BO SME(s)	System	Description	Database	Table	SME(s)	Notes
Treasury Operations	Sandra Jannetty						• Optimal CEQ levels to fund operations • Real-time tracking of excess cash for short-term investments
Treasury Data Sources	• Patrick D Keis • Tim Andrews • Probir K Mukerjee						Patrick Keis, is REST API is available for Essbase PeopleSoft?
Cash management	Eric Willett						
	• Dom Morais • Dawn Sutherland	Quantum	• Cash management system, comes from PeopleSoft General Ledger • Created by FIS • Has Treasury workstation • Manages parts of Treasury • Quantum is used daily				Q. Is commercial paper and the debt managed in Quantum or a different system? R. Michael Jonczyk and Brian Blake response: Yes, Quantum and Excel
	• Probir Mukerjee • Jillian?	Quantum & Forecasting Hierarchy	Regulated forecasting - 70-80 can go up to 400 Non-regulated forecasting - all rolled into one Jilian has dividend forecasting data				
	• Patrick Whitmer • Jason Gehlen	Peoplesoft	• PeopleSoft data is stale • Only some parts of PeopleSoft are needed • Runs a monthly job • Average balances are more useful than month end balances • To query: **Essbase** - GL tool (Excel add-in) • Need connection to Essbase in Oracle; should be standard REST API connection?	Oracle			Talk to Tim Andrews to get direct access to PeopleSoft Need to talk to Patrick Keis about REST API availability. Will discuss in 2/17/25 meeting
	• Brian Blake	PAM (Princeton Asset Management)	• Used for derivatives and accounting • PAM is **system of records** for **Brian & team** • Brian & team have access to it • Can connect to it • Export module is typically used to access database • Citrix is used to connect to it • PAM runs monthly	Open database			
	Owen O'Mahoney Or Owen Mahoney	International Cash	Owen Mahoney team in Ireland is using it				

+++ ++++++++++++++++++++++++++++++++++++++

Meeting notes - 02/17/2025

- Quantum & ePAM
- Scope - all cash
- dbTools to connect to direct database access
- SQL database
- AGS Database tool
- FIS is a complex table
- Transmit data via ECG and drop it to the desired
- Bill to get connected with Eric to determine the scope
- Eric Willett will define the scope

- Patrick W. will work with Tim Andrews (everything)- PeopleSoft - what details are you looking for account code

+++ ++

Jayanthi:

UAIS is the platform. Can you give more info? Is it for internal or external client. UAIS documentation at https://docs.hcp.uhg.com/united-ai-studio/overview
They also have hcp chat gcp
to ask questions on hcp documentation

++

Treasury Dataset priority

WP Whitmer, Patrick
To Cheema, Dave
Retention Policy UHGInbox (90 days) Expires 7/9/2025
You replied to this message on 4/10/2025 9:59 PM.

Reply | Reply All | Forward | ...

Thu 4/10/2025 9:55 PM

Hey Dave,

My 1:1 with Jason moved to Friday, but here is my take on the priorities right now:

1) Quantum Transactions
2) Bank Balances
3) Target Balance and Concentration Cash Flow
4) The 7 ePam files (in any order)
5) ICS file
6) PeopleSoft file
7) Dividends
8) DDA Interest Rates

May change slightly after my conversation with Jason, but the important takeaway is to get the 3 Quantum files done first (if possible, I know we are still waiting on #3 above). We can move onto the ePam files while we are waiting on #3 if we finish the first 2 before we get to 3.

Thanks,
Patrick

++

• Dom Morais • Dawn Sutherland	Quantum	• Cash management system, comes from PeopleSoft General Ledger • Created by FIS • Has Treasury workstation • Manages parts of Treasury • Quantum is used daily

Quantum is a cash management system, comes from PeopleSoft General Ledger.
ICS data source is also going to be PeopleSoft

Colors

Thursday, October 10, 2024 7:17 PM

Green - #00b050
Yellow - #ffff96
Red - #ff0909
Royal Blue - #348dcd
Navy Blue - #00226b

Miscellaneous

Saturday, December 28, 2024 12:43 PM

Assessment
    Collect, Analyze & Assess Current state for each data source
Define & Design
Dev, Test, & Deploy
PAT
Decom
+++

Proposed approach

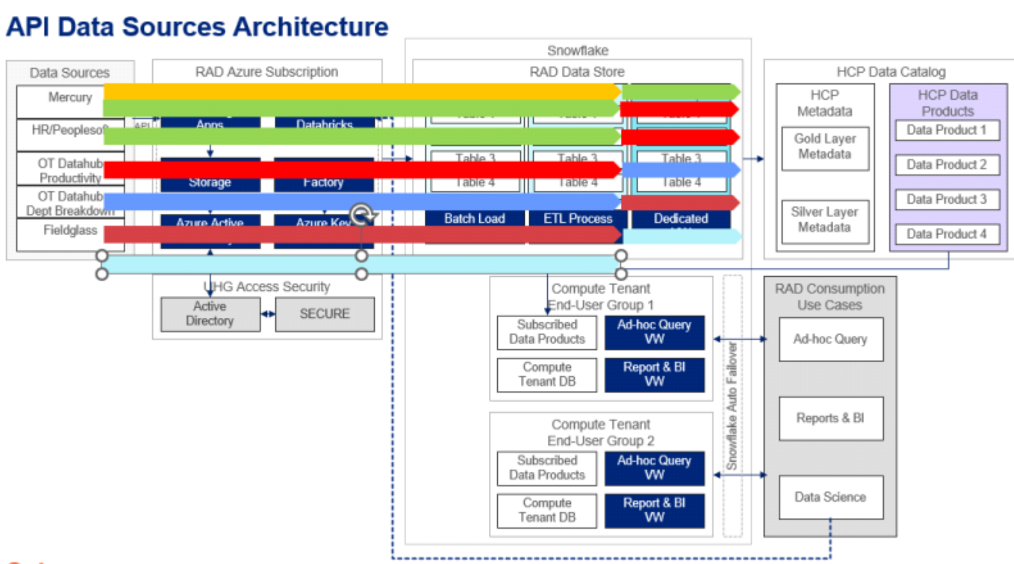
1. Collect:
    a. Data source domains
    b. Data source types
    c. Data sources
    d.

Name	Location	Access Mechanism	Access Credentials	Data source Type	Frequency	Expected Volume	Challenges	Documentation	Desired State	Notes

2. Identify data source patterns
    a. Data Migration
    b. Data Ingestion
    c. Data Transformation
3. Define & Design future state
    a. Define process architectures and dataflows
    b. Identify processes, platforms and tools/services
    c. Data Architecture patterns
    d. Databases, data schemas, and data tables/views
4. Effort Estimates
    a. Create estimates for Definition & Design phase (remainder est. will be created during Definition & Design phase)
5. Findings, Approaches, and Solutions
    a. Document findings and proposed approaches and solutions
    b. Review internally and with Treasury SMEs
    c. Make Treasury leadership presentation
6. Secure Approval
    a. Get client approval before proceeding further

+++

ECIF SoW Draft for RAD



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Assessment

- **Program Management Milestones**
    - Start Date: January 21, 2025
    - End Date: February 28, 2025 (6 weeks)
- **Current state**
    - Explore existing data landscape
    - Current business use cases being addressed
    - Operational model and related costs
    - Potential gaps / opportunities for business and operations
- **Key Outcomes**
    - **Future state Architecture vision**
        - Integrate Treasury Analytics use cases with existing RAD platform
    - **Definition & Design Estimates**
        - Estimates for Definition & Design phase
        - Solution Definition & Design

Definition and Design

- **Program Management Milestones**
    - Start Date: March 3, 2025
    - End Date: April 11, 2025 (6 weeks)

- **Activities**
  - Define cloud solution patterns identifying the cloud tech stack and appropriate usage of each tool
  - POC?
  - Create detailed solution design for data acquisition & data integration to populate Bronze, Silver, and Gold data into RAD Treasury Data Platform for all data sources
  - Create estimation of effort for Dev, Test, and Deployment phase of program
- **Key Outcomes**
  - Cloud solution patterns and tech. stack to implement use cases
  - POC?
  - Solution design for data acquisition & data integration to populate RAD Treasury Data Platform for all data sources
  - Effort estimates for development phase of the program

Development

- **Program Management Milestones**
  - Start Date: April 14, 2025
  - End Date: July 31, 2025 (16 weeks)
- **Activities**
  - Development of cloud data solution patterns & tools based on use cases
  - Data ingestion and data pipelines frameworks
  - Review and finalize end-to-end cloud infrastructure components
  - Implement solutions for data acquisition & integrations to populate medallion architecture tables for all data sources
  - Validate results
- **Key Outcomes**
  - Ready-to-run end-to-end cloud infrastructure components
  - Validated results

Deployment

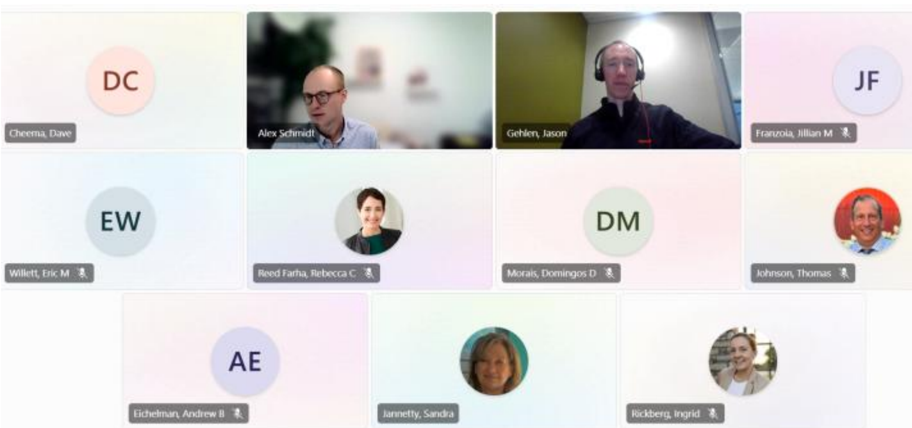
- **Program Management Milestones:**
  - Start Date: August 1, 2025
  - End Date: September 26, 2025 (~8 weeks)
- **Activities**
  - Review and refine Production environment
  - Migrate historical data
  - Setup delta data ingestion and integration
  - Create detailed effort estimates for PAT & Decommission phases of program
  - Define & implement the HCP Data Catalog based data consumption model for RAD Treasury Data Platform
  - Develop automations for infrastructure & code deployment using terraform and CI/CD capabilities in GitHub
- **Key Outcomes:**
  - Migrated historical data
  - Infrastructure to run delta data ingestion and integration
  - Detailed estimation of effort for PAT & Decommission phases of the program
  - HCP Data Catalog based data consumption model for RAD Treasury Data Platform
  - Automated infrastructure & code deployment

Production Acceptance Testing & Decommission

- **Program Management Milestones:**
  - Start Date: September 29, 2025
  - End Date: November 28, 2025 (~9 weeks)
- **Activities**
  - Conduct parallel testing and validation of cloud data pipelines to ensure data outcomes are equivalent to current state expectations
  - Perform testing of data consumption use cases to ensure continuity compared to current state
  - Decommission of on-premises solution after complete sign-off of PAT

- **Key Outcomes:**
  - Tested and validated cloud data pipelines to ensure outcomes are equivalent to current state expectations
  - Validated data consumption use cases to ensure continuity of current state
  - Client sign-off of Production Acceptance Testing (PAT)
  - Turned off on-premises solution

++ +++++++++++++++++++++



++ ++

- Is commercial paper and the debt managed in Quantum or a different system? If different, which one?
  - Mainly Quantum & also Excel
- Quantum - FIS created it; has Treasury workstation, Used to manage parts of Treasury
  - Dawn Sutherland SME
- ATOM
  - Dawn Sutherland and Becky Reed's teams are using it
- PAM (Princeton Asset Management)
  - Brian Blake - contact person
  - PAM is primary system for accounting. Has open database.
  - What type of database is used for it? - Open database
  - How do you connect to it - Have access and can connect to it. There is an export module that is used to typically access the database. It is a 3rd party tool. Connect to it via Citrix.
  - How is data extracted out of it? - Using export module and pulled into Excel

++

Report (output)	Macro(s)	Excel Sheets within Macros	Notes	Input Data	Source
Banking Exposures 11.30.2024.xlsx			• Update ACN4 tab with current month data (first three columns are formulas so make sure they are calculating correctly for all rows) • Update Bank Account data with the opportunities report data set for the current month (Make sure columns have not changed, if they have be sure to make adjustments) • Update the NonTWS Account data tab with the aggregated data from Denise Terry (Make sure columns have not changed, if they have be sure to make adjustments) • Filter the ANC4 tab to non-bank in column C and then remove issue types that are securitized, bank loans, market funds, or other types that wouldn't represent bank exposure. Then filter issuer name to all those that include Bank in the name. Ignore issuer name Optum Bank • If there are any securities in the filtered rows that appear to be a bank, add the ticker information and rating info on the lookup tab appropriately (be sure to check if we already have it but the name or ticker is slightly different). Then add that new name to the reporting tab and pull down formulas.		
Trading Desk Performance Data.xlsx					
Treasury Data & Technology.xlsx					
Cash Management Working Files					
MTD_BAI_TransactionReport_BU_55360_1.xlsx					
New Money Market Tracker.xlsm			**Contains macros**		
	BNYM LDP Bank		I:\Cash_Management\NMMT Sheets\BNYM LDP.xlsx		
	Check		I:\Cash_Management\New Corp Worksheet.xlsx		
	HistoricalA				
	DDADumpA		I:\Cash_Management\NMMT Sheets\DDA DumpA.xlsx		
	PasteRow12BelowLastBusinessDay				
	PoolWorksheetP		I:\Cash_Management\NMMT Sheets\Pool File.xlsx		
Sample Forecast					
2025 Dividend Forecast as of 1.21.2025.xlsx					
55360 - UHC Benefits Plan of TX - Forecast - TJ.xlsx					
New Corp worksheet.xlsx					
Rolling 24 Month ICS Forecast sent 02.04.25.xlsx					
Sample Reports					
Cash detail.xlsm			**Instructions:** 1. Login to peopleSoft and pull the new Legal Cash report. Run the report to excel. 2. run from period 0 to the previous month end. 3. June = 6 4. Save the file over previous for the new data. S:\Cashinvt\Investment Mgmt \Cash Balance - PS Report\Cash Balances BS_Data\Legal Cash PS Data.xlsx 5. Copy formulas from previous month over to a new tab for the new month in the Data tab. 6. Copy, paste values over the previous month data in the Data tab to keep previous data. If you do not do this, you will lose previous months data. 7. Run the below macro to update the Cash Data 8. Run the below macro to update the Unit Tree. (need to add manually now) 9. Review New Combination Check tab in Cash Data tab. If there are any "Need to Add", you will add the BU information to the BUs tab. If there is a new cash account, you will need to add to the Cash Account tab. 10. If there are new BUs, you will need to add new rows at the bottom of the data tab. 11. Get the Cash & Cash Equivalents from the balance sheet. (T:\Treasury\BS Legal\BS_LEGALMMYY.xlsm) Open up the tabs to find the cash and cash equivalents. 12. Click the 3 as seen below to expand the data to find the cash and cash equivalents. 13. NEW CASH ACCOUNT NAMES ON BS LEGAL DOC 14. Paste the BS cash and cash equivalents number to the yellow box, this is a balance check to ensure we have all accounts in the data tab.		
	collapse				
	HideBlankColumn				
	DollarsCents				
	UpdateCashData		• Directory: "S:\Cashinvt\Investment Mgmt\Cash Balance - PS Report\Cash Balances BS_Data" • File: "S:\Cashinvt\Investment Mgmt\Cash Balance - PS Report\Cash Balances BS_Data\Legal Cash PS Data.xlsx" • Windows("CashBalanceBS New.xlsm").Activate		
Corp Forecast - executive summary					

example.xlsx					
Treasury Shared Documents					
01.2025 DDA Opp.xlsx					
01.2025 DDAIntECR&CEQ.xlsm					
	aGetUnitTreeTable		Directory: "T:\Treasury\PAMReports" File: Workbooks.Open Filename:="T:\Treasury\PAMReports\Unit Trees.xlsx"		
	bGetLegalEntityTable		Directory: "T:\Treasury\PAMReports" File: "T:\Treasury\PAMReports\Legal Entities.xlsm"		
	cGetCustAcctTable		Directory: "T:\Treasury\PAMReports" File: "T:\Treasury\PAMReports\Cust Acct Table.xlsx"		
	dGetPoolBal		Directory: "T:\Treasury\PAMReports" File: "T:\Treasury\PAMReports\" & Folder & "\Pool\PoolCustodyRec" & CurMonth & EoMDay & CurYear & ".xlsm"		
	eGetBNMData		Directory: "T:\Treasury\PAMReports" File: "T:\Treasury\PAMReports\" & Folder & "\BNM Custody Recon\Processed Account Detail Files\Account_Detail" & CurMonth & CurDay & CurYear & ".txt"		
	fGetMTDPoolRates		File: "T:\Treasury\PAMReports\DDA Interest Info\" & CurYear & "\" & CurMonth & "." & CurYear & "\Forecast\" & CurMonth & "." & CurYear & " Pool Rates MTD.xlsm"		
	fGetMEPoolRates		File: "T:\Treasury\PAMReports\" & Folder & "\Pool\Pool Yields " & CurMonth & CurDay & CurYear & " Uhgrp6nm.xlsx" Has password		
	gWD1GetBankBals		File: "E:\MTD_Reports\Archive\All " & PriorYear & " Month End Reports\" & PriorMoText & " " & PriorYear & "\MTD_BankBalanceReport.xlsx" File: E:\MTD_Reports\Archive\All " & CurYear & " Month End Reports\" & CurMoText & " " & CurYear & "\MTD_BankBalanceReport.xlsx"		
	hGetDDAList				
	iGetBNMPoolList				
	jCreateOptTbl				
	xxUpdateBankCalcTab				
01.2025 Mmkt.Pool Inc.xlsm					
	EnterPortMgrCUSIP				
	GetPamPortTable		File: "T:\Treasury\PAMReports\PAM Portfolio Table.xlsm"		
	GetIncEarnBuild		File: "S:\Cashinvt\Reconciliation\Builders\IncEarnBuilder.xlsm"		
	GetSecTranBuild		File: "S:\Cashinvt\Reconciliation\Builders\SecTranBuilder.xlsm"		
	GetMTDPoolRates		File: Path & "\" & MoYr & " Pool Rates MTD.xlsm"		
	GetMEPoolRates		File: "T:\Treasury\PAMReports\" & Folder & "\Pool\Pool Yields " & CurMonth & CurDay & CurYear & " Uhgrp6nm.xlsx"		
	GetNTSTIFRates		File: Path & "\" & MoYr & " NT STIF Rates.xlsm"		
	GetOtherRates		File: Path & "\" & MoYr & " Other MMF Rates.xlsm"		
	GetBNMRates		File: Path & "\" & MoYr & " BNM Rates.xlsm"		
	GetFXAve		File: "S:\Cashinvt\InterCo Loans\CurrencyDataBase.xlsx"		
Banking Exposures 11.30.2024.xls			File: Banking Exposures 11.30.2024		

Treasury
- Quantum
- ePAM
- PeopleSoft
- Dividends
- Interests

Cashflow Management
- Inflows
- Outflows

Dividends

Historical data
Daily/weekly/monthly

What should be the naming standards

Emails - how should they be handled?
Do you think we should get Sandy's input as well?
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Meeting Title	Date Time	Attendees	Body
Kickoff meeting - Treasury RAD Assessment	1/21/2025 1:30PM - 2:00 PM	Alex Schmidt; Whitmer, Patrick	Alex, Patrick, The purpose of this meeting is to determine the logistics (scope, available collaterals, and SMEs availability) for the Treasury RAD Assessment project. Note: If this timeslot does not work for you, please suggest a better suited time.
Treasury RAD Assessment	1/27/2025 2:00 PM - 3:00PM	Alex Schmidt; Whitmer, Patrick	Please feel free to invite whomever you deem appropriate. Thank you.
Working session - RAD Treasury Assessment project	2/4/2025 4:00 PM - 4:30 PM	Alex Schmidt; Gehlen, Jason	Alex, Jason, The purpose of this meeting is to devise a plan to determine the overview, approach, collection of necessary data

			sources and information, and the outcome of the RAD Treasury Assessment project. Thank you.
Working Session - RAD Treasury Assessment - Overview, Approach, Responsibilities and expectations	2/10/2025 3:00 PM - 4:00 PM	Alex Schmidt; Gehlen, Jason; Whitmer, Patrick; Jannetty, Sandra ; Crossley, Geoffrey M; Gerdin, Bradley G; Willett, Eric M; Johnson, Thomas; Franzoia, Jillian M; Blake, Brian P; Morais, Domingos D; Eichelman, Andrew B CC: Alex Schmidt ; Gehlen, Jason; Whitmer, Patrick; Jannetty, Sandra; Crossley, Geoffrey M ; Gerdin, Bradley G; Willett, Eric M; Johnson, Thomas; Franzoia, Jillian M; Blake, Brian P; Morais, Domingos D; Eichelman, Andrew B	The purpose of this meeting is to get consensus of the scope, overview, approach, timeline and expectations for the RAD Treasury Assessment project. Please feel free to forward this meeting invite to anyone deemed appropriate. Thank you.
Data Sources for Treasury reports/dashboards	2/11/2025 12:00 - 12:30 PM	Keis, Patrick D; Andrews, Tim; Whitmer, Patrick; Mukerjee, Probir K; Jannetty, Sandra CC: Alex Schmidt	Recurring
Treasury reports/dashboards - data sources	2/12/2025 1:00PM - 1:30 PM	Blake, Brian P; Jonczyk, Michael CC: Alex Schmidt; Jannetty, Sandra; Whitmer, Patrick ; Gehlen, Jason; Edelstein, Joshua	Brian, Michael, I have the following questions: • Is commercial paper and the debt managed in Quantum or a different system? If different, which one? • Do you guys know anything about ATOM? • Are your team(s) using it? If yes, we would like to learn about it? If not, do you know who might be using it? • Brian, does you team use PAM? If yes - ○ what type of database is used for it? ○ how do you connect to it? ○ how is data extracted out of it?
Treasury reports/dashboards - Data Source - PeopleSoft	2/12/2025 3:30 PM - 4:00 PM	Whitmer, Patrick ; Gehlen, Jason	Patrick, Jason, The purpose of this meeting is to determine what to extract out of PeopleSoft database, how to extract it and who are the SMEs we need to work with? Thank you.
Plan interviews with different stakeholders for Treasury Assessment	2/14/2025 10:30 AM - 11:00 AM	Whitmer, Patrick	The purpose of this meeting to plan on how to group various stakeholders to conduct effective and efficient meetings. Also, I have some questions regarding PeopleSoft as well that I'd like to some clarifications on. Thank you.
Treasury reports/dashboards data sources	2/19/2025 12:00 PM - 12:30 PM	Mukerjee, Probir K; Morais, Domingos D ; Sutherland, Dawn C CC: Alex Schmidt; Whitmer, Patrick; Gehlen, Jason; Jannetty, Sandra; Joshi, Srijan; Bostick, William T	Probir, et al, We're in the process of re-platforming and re-writing Treasury reports. We need some information regarding Quantum. For example: • What type of database it has? • How do we connect to it? • What language can be used to read data from it? • How do you get data out from it? • What is the forecasting hierarchy in it?
Data Sources for Treasury reports/dashboards	2/24/2025 11:00 AM - 11:30 AM	Sutherland, Dawn C; Bostick, William T CC: Jannetty, Sandra; Alex Schmidt; Whitmer, Patrick	The purpose of this meeting is to determine if we can get data from the data source.
Dividends data source(s) for Treasury reports and dashboards	2/24/2025 4:00 PM - 4:30 PM	Willett, Eric M <eric_m_willett@uhg.com>; Gehlen, Jason <jason.gehlen@uhg.com>; Kennedy, Lynelle <lynelle_kennedy@uhg.com>; Franzoia, Jillian M <jillian_franzoia@uhg.com> CC: Jannetty, Sandra <sandra_jannetty@uhg.com>; Alex Schmidt <alex_schmidt@uhg.com>; Whitmer, Patrick <patrick_whitmer@uhc.com>	The purpose of this meeting is to identify dividends data source(s) for the Treasury Reports and dashboards. Thank you.
Create Treasury Folders in Azure Blob Storage	2/27/2025 11:45 AM - 12:15 PM	Whitmer, Patrick <patrick_whitmer@uhc.com>; Sahoo, Asit K <asit_sahoo@optum.com>	Patrick, Asit, The purpose of this meeting is to align our understanding on creating folders for the Landing Zone of the Treasury data and to provide access credentials to the client. The following is the proposed folder structure that we'd like to be created. **Treasury** • Quantum • Balances • Transactions • ICS • Interest Rates • Target balance and concentration cash flow • ePAM • PeopleSoft • Dividends • Email (Brian) – Hold off this for now – have to discuss logistics with Brian P Blake
Treasury project Scope and division of responsibility	2/27/2025 4:30 PM - 5:00 PM	Alex Schmidt <alex_schmidt@uhg.com>; Whitmer, Patrick <patrick_whitmer@uhc.com>; Gehlen, Jason <jason.gehlen@uhg.com>	Sorry for setting up a very late afternoon meeting. But I couldn't find any other empty timeslot that will work for everyone. Thanks in advance for your understanding. Anyhow, the purpose of this meeting is to formalize the scope of this effort and define the division of responsibility.

2. Vision for Success:
Treasury leadership envisions a future where:

- **Reporting is Predictive**
- **Data is Trusted and Simplified**
- **Simplified Decision Support**
- Integrate key platforms like Quantum, into a centralized environment.
- **Processes:** Streamline forecasting, reconciliation, and reporting workflows.
- **Tools:** Optimize and consolidate foundational tools like Power BI and SQL for maximum efficiency.

4. Path Forward:

- **Data Sources:** Integrate key platforms like Quantum, ATOM, and EPM into a centralized environment.
- **Processes:** Streamline forecasting, reconciliation, and reporting workflows.
- **Tools:** Optimize and consolidate foundational tools like Power BI and SQL for maximum efficiency.

People: Align roles across Treasury, partners like FP&A, and RAD to support execution and outcomes.

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From: Jannetty, Sandra <sandra_jannetty@uhg.com>
Sent: Wednesday, February 26, 2025 12:24 PM
To: Alex Schmidt <alex_schmidt@uhg.com>; Sutherland, Dawn C <dsutherl@uhg.com>; Cheema, Dave <dave.cheema@optum.com>
Cc: Bostick, William T <william.bostick@uhg.com>; Willett, Eric M <eric_m_willett@uhg.com>; Morais, Domingos D <domingos_d_morais@uhg.com>
Subject: RE: Quantum Data

Thanks Alex.

We received an update from Dawn and Bill today. They are able to set up a daily transmission from Quantum to a drop zone to be determined by Dave Cheema. Two files will be sent daily; 1 for all the transactions and 1 for bank balances at end of day.

Sandy

From: Alex Schmidt <alex_schmidt@uhg.com>
Sent: Wednesday, February 26, 2025 11:52 AM
To: Jannetty, Sandra <sandra_jannetty@uhg.com>; Sutherland, Dawn C <dsutherl@uhg.com>; Cheema, Dave <dave.cheema@optum.com>
Cc: Bostick, William T <william.bostick@uhg.com>; Willett, Eric M <eric_m_willett@uhg.com>; Morais, Domingos D <domingos_d_morais@uhg.com>
Subject: RE: Quantum Data

Hi Sandy,

This is great detail; if what you describe is repeatedly, manually but in a standardized way, processed – then we can automate it and have the same controls in place.

Best,
Alex

From: Jannetty, Sandra <sandra_jannetty@uhg.com>
Sent: Wednesday, February 26, 2025 7:00 AM
To: Sutherland, Dawn C <dsutherl@uhg.com>; Cheema, Dave <dave.cheema@optum.com>
Cc: Bostick, William T <william.bostick@uhg.com>; Willett, Eric M <eric_m_willett@uhg.com>; Morais, Domingos D <domingos_d_morais@uhg.com>; Alex Schmidt <alex_schmidt@uhg.com>
Subject: RE: Quantum Data

Dawn,
Thank you for this explanation.

In my experience the best way to capture updates/changes is to rely on the date field that records when the record was input to the system. This way, if certain transactions are a day or more late, we capture them as new data regardless of the bank transaction date. I believe, in BankData, this field is called the First Date.

Dave and Alex,

We will need some controls to ensure that the data pulled from Quantum is complete and accurate. I'm hoping you will have ideas for such controls. One control that we use in our bank reconciliation system is to calculate the Previous Day's Balance + today's debit transactions imported – today's credit transaction imported = Today's balance; then compare the calculated balance to today's imported balance. We do this for every account to make sure we are not missing any detail transactions.

Sandy

From: Sutherland, Dawn C <dsutherl@uhg.com>
Sent: Monday, February 24, 2025 11:01 AM
To: Jannetty, Sandra <sandra_jannetty@uhg.com>; Cheema, Dave <dave.cheema@optum.com>
Cc: Bostick, William T <william.bostick@uhg.com>; Willett, Eric M <eric_m_willett@uhg.com>; Morais, Domingos D <domingos_d_morais@uhg.com>; Alex Schmidt <alex_schmidt@uhg.com>
Subject: RE: Quantum Data

Sandy –

See comments below based on discussions we had with Dom and Eric last week:

- Transaction Reports – If we provide "Daily" transaction reports going forward, we have no way to provide a differential report. That means, we can only provide YESTERDAY's transactions. If a file was late, and we needed to see two day's transactions for a particular bank or account, it would never appear. Business unit changes that occur mid-month would typically appear retroactively on the MTD reports, also, but would not get captured on a daily file until the day of the change.
- Balance Reports – Similar situation – If we provide daily balances, missing data or changes from the previous day would not be captured.

Thanks!
Dawn

From: Jannetty, Sandra <sandra_jannetty@uhg.com>
Sent: Monday, February 24, 2025 11:18 AM
To: Cheema, Dave <dave.cheema@optum.com>
Cc: Sutherland, Dawn C <dsutherl@uhg.com>; Bostick, William T <william.bostick@uhg.com>; Willett, Eric M <eric_m_willett@uhg.com>; Morais, Domingos D <domingos_d_morais@uhg.com>; Alex Schmidt <alex_schmidt@uhg.com>
Subject: Quantum Data

Dave,

What is the landing site where you want us to send the Quantum data to you?

Bill has collected some historical data that he is ready to transmit to you, probably via QuickConnect.

- All Transactions for December 2024 and January 2025. He will have February 2025 for you next week.
- He will soon have Daily Balances for you for these periods as well.

Please provide feedback to this entire group on your ability to handle the volume of this data as it will help inform how much history we can provide. We are considering going back to July 2024, or January 2024. We have also discussed 3 years of history, so we need to understand the value and feasibility of this. Alex is working with three years of data for two legal entities right now to do some forecasting modeling. This work will also inform the value add of each prior period to the accuracy of the forecast.

Bill is working to create a daily extract of Transactions and Balances for transmission to your landing site. These daily files will be scheduled to transfer to your landing site automatically. We are targeting to start this daily transmission in March.

Next, Bill will work on extracting bank account target balances to transfer to the landing site.

Sandy
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Treasury

- Quantum
  - Bank Balances
  - Bank Transactions
  - Target balance and concentration cash flow
- ePAM
  - Overnight Liquidity
  - Interest Rates
- ICS
- PeopleSoft
- Dividends
- DDA Interest Rates

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Notes from meeting 2/11/2025 Sandy Jannetty
Subject: Cash forecasting overview
Hard to predict future needs for money using current tools and data
get daily activities
Data comes from quantum, cash management system
Key systems: Quantum is key to cash management, General Ledger comes from PeopleSoft, ePAM system from accounting of investments derivitives, Unclear what Courtney uses for investment tracking.
Any reference tables, mappings, for reference purposes? -
We have connection to PeopleSoft
Can we reach to Melissa to get insights into PeopleSoft

How do you get data out of Quantum today? - We don't have direct connection to go to Quantum. Try Dawn Sutherland and Dom Morais to learn about Quantum database connectivity

if you need data from ePAM, connect with Brian B. and Bill Bostick
Patrick - get data from PeopleSoft for GL spend. Rekindle for PeopleSoft connection

Commericial paper - where is it managed - don't know yet. Brian Blair might know
Forecast they collect is at the segment level, you get use it to go to the cash flow
FP&A is used for executive forecasts
Start small and add conmplexity as needed

FP&A started to get data for future forecasts, but ran into some issues, hope to discover some alternative sources
Timing of CMS, inter-company settlements are drivers
+++
Review remaining presentation for RAD Treasury data modernization deck
12:30 PM - 1:00 PM
+++
MTD_BAI_TransactionReport_BU_55360_1
Column: 10
Rows: 247

Quantum Transaction Data
- Columns: 11
- Rows: 405K

New Money Market Tracker - 31 sheets, sheet Graph has 1557 columns, HistoricalA has 1067 columns, and Forecast has Columns: 498
- Daily SUmmaryP
  - columns: 10
  - rows: 628
- Daily Totals
  - Columns: 21
  - Rows: 308
- HistoricalA
  - Columns: 1067
  - Rows: 308
- DDA DumpA
  - Columns: 10
  - Rows: 1918
- Pool WorksheetP
  - Columns: 12
  - Rows: 55
- BNYM LDP
  - Columns: 8
  - Rows: 178
- Excess Cash
  - Columns: 4
  - Rows: 6
- Cash Desk
  - Columns: 8
  - Rows: 84
- Loans and ICS Held
  - Columns: 14
  - Rows: 315
- Dashboard
  - Columns: 6
  - Rows: 3
- Forecast
  - Columns: 498
  - Rows: 64
- Graph

Rows: 3
Forecast
Columns: 498
Rows: 64
Graph
Columns: 1557
Rows: 3
01.21 Div Forecast
Columns: 14
Rows: 70
Dividend Infusions
Columns: 5
Rows: 523
LT Balances
Columns: 6
Rows: 219
Loan Limits 4.9.24
Columns: 13
Rows: 107
LT Transfer 24 and Later
Columns: 7
Rows: 171
LT Summary 2025
Columns: 14
Rows: 31
LT Summary 2024
Columns: 14
Rows: 31
++
Columns: 11
Data Raw: 405591 rows
+++
Quantun Transaction Data
BUnit, OurBank, AccountNo, ValueDate, Amount, Absolute Val, BankCode, WSheetCatCode, Currency, Reference, Description1
+++
Based on Jason's feedback from yesterday's meeting:
Alex want to produce a report (13 week cash forecast) on RAD Treasury Data Platform as soon as possible
Need to shorten the detailed design and specifications duration
Only one dataset from Quantum - Quantum Transaction Data
Manually drop source data into the Azure Blob Storage
+++
Quantum is the most widely used data source in Treasury
Connect to it using Export module via Citrix
It is challenging to get data out of Quantum

01.2025 DDA Opp.xlsx, 01.2025 DDAIntECR&CEQ.xlsm

2025 Dividend Forecast as of 1.21.2025.xlsx

New Corp worksheet.xlsx has 18 sheets, sheet UHG has 1743 columns, and UHS has 685 columns
Sheets: 18
UHG
Column: 1743
Rows: 96
ICS
Columns: 122
Rows: 381
Final Balances
Columns: 167
Rows: 25
Non reg
Columns: 12
Rows: 52
RX ACH
Columns: 16
Rows: 260
UHS
Columns: 685
Rows:

Rolling 24 Month ICS Forecast sent 02.04.25.xlsx

Quantum is a cash management system, comes from PeopleSoft General Ledger.
Created by FIS; has Treasury workstation; manages parts of Treasury
Quantum is used daily
SMEs: Dom Morais and Dawn Sutherland

Quantum - FIS created it; has Treasury workstation, Used to manage parts of Treasury - ○ Dawn Sutherland SME

• Cash management system, comes from PeopleSoft General Ledger
• Created by FIS
• Has Treasury workstation
• Manages parts of Treasury
• Quantum is used daily

15 Reports
+++
Cash Manangement Working Files
MTD_BAI_TransactionReport_BU_55360_1.xlsx

New Money Market Tracker.xlsm
31 Tabs,

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Hard to predict future needs for money using current tools and data

Quantum is the main data source used in Treasury's cash management system
It comes from PeopleSoft General Ledger
Created by Fidelity Investment Services (FIS)
Treasury can connect to the PeopleSoft database using Treasury workstation
It manages parts of Treasury
Creates 23 reports

- BNYM LDP.xlsx
- DDA DumpA.xlsx
- Pool File.xlsx
- Legal Cash PS Data.xlsx
- BS_LEGALMMYY.xlsm
- Legal Cash PS Data.xlsx
- CashBalanceBS New.xlsm
- Unit Trees.xlsx

Quantum Transaction Data - 11 columns, 405K rows
New Corp worksheet.xlsx - 18 sheets, sheet UHG has 1743 columns, and UHS has 685 columns
New Money Market Tracker - 31 sheets, sheets Graph has 1557 columns, HistoricalA has 1067 columns, and Forecast has Columns: 498
MTD_BAI_TransactionReport_BU_55360_1.xlsx (by BU), runs Daily
Difficulty getting data out of Quantum
Quantum is used daily
SMEs: Dom Morais and Dawn Sutherland

Data Source	Purpose	Connectivity	Reports	Frequency	SMEs	Highlights & Challenges
• Quantum is the main data source used in Treasury • It comes from PeopleSoft General Ledger • Created by Fidelity Investment Services (FIS)	• Cash management system • Manages parts of Treasury	• Connect to the PeopleSoft database using Treasury workstation	• Produces 23 reports	Daily	• Dom Morais • Dawn Sutherland	• Quantum Transaction Data - 11 columns, 405K rows • New Corp worksheet.xlsx - 18 sheets, sheet UHG has 1743 columns, and UHS has 685 columns • New Money Market Tracker - 31 sheets, sheet Graph has 1557 columns, HistoricalA has 1067 columns, and Forecast has Columns: 498 • MTD_BAI_TransactionReport_BU_55360_1.xlsx (by BU), runs Daily • Difficulty getting data out of Quantum
• Princeton Asset Management (ePAM)	• Accounting of investments derivatives	• Has open database • Have access to it • Connect to it using an export module - a 3rd party tool, via Citrix and pulled into Excel	• Creates 10 reports	Monthly	• Brian Blake	Creates Unit Trees.xlsx, Legal Entities.xlsm, Cust Acct Table.xlsx, PoolCustodyRec<date>.xlsm, Account_Detail<date>.txt, Pool Rates, MTD.xlsm, Uhgrp6nm.xlsx, PAM Portfolio Table.xlsm IncEarnBuilder.xlsm, SecTranBuilder.xlsm reports Reports are referenced in macros of 01.2025 DDAIntECR&CEQ.xlsm and 01.2025 Mmkt.Pool Inc.xlsm reports
• ICS	• Rolling 24 Month ICS Forecast	• Data is pulled from various sources	• Creates 2 reports	Daily/ Monthly		• Excel sheets: Loans and ICS Held - a sheet in New Money Market Tracker.xlsx report; 14 Columns wide • ICS - a sheet in New Corp worksheet.xlsx report; 122 columns wide
• PeopleSoft	• Extract Quantum data	• Connect to PeopleSoft database using Treasury workstation	• Data feed	Monthly	• Patrick Whitmer • Jason Gehlen	• PeopleSoft General Ledger data is used to extract Quantum data
Dividends	• Dividends forecasting	Uses Excel	• Produces 3 reports	Monthly	• Lynelle Kennedy • Jillian Franzoia	• There is no database containing data information • They give numbers at every quarter end • Used to create 2025 Dividend Forecast as of 1.21.2025.xlsx and Dividend Funding Summary 8.28.2024.xlsx reports • Dividend Infusions is a sheet in New Money Market Tracker.xlsx workbook
DDA Interest Rates	Produce DDADumps	Uses Excel	Creates 4 reports	Monthly	Brian Blake & team	• Produce DDA DumpA.xlsx report • 01.2025 DDA Opp.xlsx • 01.2025 DDAIntECR&CEQ.xlsm • Pool Rates MTD.xlsm

Princeton Asset Management (ePAM) system for accounting of investments derivatives

- Has open database.
- Have access to it and connect to it using an export module - a 3rd party tool, via Citrix and pulled into Excel
- Creates 10 reports
- ePAM runs Monthly
- Brian Blake - contact person

Unit Trees.xlsx
Legal Entities.xlsm
Cust Acct Table.xlsx
PoolCustodyRec<*date*>.xlsm
Account_Detail<date>.txt
Pool Rates MTD.xlsm
Uhgrp6nm.xlsx
PAM Portfolio Table.xlsm
IncEarnBuilder.xlsm
SecTranBuilder.xlsm

Dividends

- Forecast for dividends and I think it's an Excel
- Dividend forecast changes every month
- Runs Monthly
- 2025 Dividend Forecast as of 1.21.2025.xlsx
- Dividend Funding Summary 8.28.2024.xlsx

Lynelle and Jillian are SMEs

PeopleSoft

- Runs monthly
- Patrick W. and Jason G. SMEs

ICS

Rolling 24 Month ICS Forecast sent 02.04.25.xlsx

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https://uhgazure.sharepoint.com/sites/OIAdvisory/staff/SitePages/Term-Sheet-Submission-Tool.aspx

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Hi Dinesh there still seems to be a really bad understanding of the Treasury data scope on Dave's side

I am extremely concerned we have now lost Treasury leaderships confidence

I am in India and it's 3am I will have Jason call you

4:49 PM

Alex - worth getting the right people together and talking thru the delta in common understanding

What are you hearing in terms of 'bad understanding of Treasury data' and from whom?

Does Patrick have the appreciation for Data - as Dave has been working very closely with Patrick as well and he has been reviewing and verifying the scope.

I understand from Dave he has reviewed the work product with Patrick and Jason both

I reviewed that work product last week with Dave and John

Would help me also understanding the delta

Curious - what got communicated to Treasury leadership resulting in loss of their confidence. Dave is not communicating with that team since your last comm om this topic

Alex Schmidt 4:53 PM

Jason is gng to reach out to you now and give you the run down

4:54 PM

Ask him to call me on cell - I have stepped away from desk abd will be back in 20 mts

Alex Schmidt 4:54 PM

They had a review and Jason and Patrick very clearly told Dave his data scoping was grossly inaccurate and overstated

And Dave cannot provide the source data sample files he used to scope

I have to try to sleep now as it's 330 here but Jason is intimately involved

Alex Schmidt is out of office and may not respond

Type a message

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Meeting Title	Date Time	Attendees	Body
Working session - RAD Treasury Assessment project	2/4/2025 4:00 PM - 4:30 PM	Alex Schmidt; Gehlen, Jason	Alex, Jason, The purpose of this meeting is to devise a plan to determine the overview, approach, collection of necessary data sources and information, and the outcome of the RAD Treasury Assessment project. Thank you.
Data Sources for Treasury reports/dashboards	2/11/2025 12:00 - 12:30 PM	Keis, Patrick D; Andrews, Tim; Whitmer, Patrick; Mukerjee, Probir K; Jannetty, Sandra CC: Alex Schmidt	Recurring
Treasury reports/dashboards - data sources	2/12/2025 1:00PM - 1:30 PM	Blake, Brian P; Jonczyk, Michael CC: Alex Schmidt; Jannetty, Sandra; Whitmer, Patrick ; Gehlen, Jason; Edelstein, Joshua	Brian, Michael, I have the following questions: • Is commercial paper and the debt managed in Quantum or a different system? If different, which one? • Do you guys know anything about ATOM? • Are your team(s) using it? If yes, we would like to learn about it? If not, do you know who might be using it? • Brian, does you team use PAM? If yes - o what type of database is used for it? o how do you connect to it? o how is data extracted out of it?
Treasury reports/dashboards - Data Source - PeopleSoft	2/12/2025 3:30 PM - 4:00 PM	Whitmer, Patrick ; Gehlen, Jason	Patrick, Jason, The purpose of this meeting is to determine what to extract out of PeopleSoft database, how to extract it and who are the SMEs we need to work with? Thank you.
Plan interviews with different stakeholders for Treasury Assessment	2/14/2025 10:30 AM - 11:00 AM	Whitmer, Patrick	The purpose of this meeting to plan on how to group various stakeholders to conduct effective and efficient meetings. Also, I have some questions regarding PeopleSoft as well that I'd like to some clarifications on. Thank you.
Treasury reports/dashboards data sources	2/19/2025 12:00 PM - 12:30 PM	Mukerjee, Probir K; Morais, Domingos D ; Sutherland, Dawn C CC: Alex Schmidt; Whitmer, Patrick; Gehlen, Jason; Jannetty, Sandra; Joshi, Srijan; Bostick, William T	Probir, et al, We're in the process of re-platforming and re-writing Treasury reports. We need some information regarding Quantum. For example: • What type of database it has? • How do we connect to it? • What language can be used to read data from it? • How do you get data out from it? • What is the forecasting hierarchy in it?
Data Sources for Treasury reports/dashboards	2/24/2025 11:00 AM - 11:30 AM	Sutherland, Dawn C; Bostick, William T CC: Jannetty, Sandra; Alex Schmidt; Whitmer, Patrick	The purpose of this meeting is to determine if we can get data from the data source.
Dividends data source(s) for Treasury reports and dashboards	2/24/2025 4:00 PM - 4:30 PM	Willett, Eric M <eric_m_willett@uhg.com>; Gehlen, Jason <jason.gehlen@uhg.com>; Kennedy, Lynelle <lynelle_kennedy@uhg.com>; Franzoia, Jillian M <jillian_franzoia@uhg.com> CC: Jannetty, Sandra <sandra_jannetty@uhg.com>; Alex Schmidt <alex_schmidt@uhg.com>; Whitmer, Patrick <patrick_whitmer@uhc.com>	The purpose of this meeting is to identify dividends data source(s) for the Treasury Reports and dashboards. Thank you.

Processed

Processed

Network > nasv0718 > Treasury_Cash_Management > Quantum_Uploads > Processed

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	A	B
4	~~Copy of developed materials or market research data~~	~~Work Products~~
5	Summary of POC/Pilot results	RAD Data Modernization - Phase 1 - Final Deliverables
6	Migration/Deployment Plan	Migration Plan by Milestone - RAD Data Modernization v0.1.xlsx
7	Project progress reports/email updates, minutes from status meetings including date/time stamp.	RAD Data Modernization Phase 1 - Weekly Status Reports - 02212025.pptx
8	Status reporting based on objectives or contractual work including date/time stamp.	RAD Data Modernization - Phase 1 - Final Deliverables + RAD Data Modernization Phase 1 - Weekly Status Reports - 02282025
9	Documented evidence (e.g., email) showing an understanding of the customers' requirements with the key stakeholder.	Current State Report - API Data Source.docx + Future State Strategy - API Data Source.docx + Data Input Ingestion Capability Mapping v2.xlsx + Future State Architecture Approval.PDF
10	~~Standard solution fitment and gap assessment~~	~~RAD Data Modernization - Approach for Solution Definition Phase v0.1.pptx~~
11	High level Full Implementation schedule	Migration Plan by Milestone - RAD Data Modernization v0.1.xlsx
12	Screenshot of system log of the workloads consuming on Azure including date/time stamp.	Historical and Delta Data Load Screenshots.PDF
13	Screenshot of the number of records migrated from Customer systems including date/time stamp.	Historical and Delta Data Load Screenshots.PDF

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Dev and Production environment Checklist	Hours/Days
Infrastructure code creation Terraform(Plan, validate and apply)	2.5 weeks
Setting up Azure virtual network, Blob storage , ADF, Role assignment, IAM role, NSG	1 week
SHIR request for VM	1 day
Grouping creation for Dev/Production in Secure	1-2 Hours
Snowflake set up and connectivity request IP whitelisting	3 days
CI CD set up for ADF and Snowflake prod environments	1.5 Week
RAD service Account Set up for Snowflake Prod environment	1-2 hours
Email notification graph API Service principal configuration	2 days
ADF blob storage connectivity set up, Linked service connection	2 days
Storage Integration set up in Snowflake for Dev/Prod	2 days
Data bricks set up via Terraform	4 days
SCIM Implementation	2 days
Snowflake connectivity, Mount blob storage	3 days
GRAPH API for email notification Testing	1 day
Linked service, Integration run time testing on ADF instance	2 days
Nonuser ID creation, ServiceNow creation Via secure for new application	1 days
ADF GitHub Integration and validation	1 days
Databricks snowflake connectivity, Mount storage connectivity	2 days
Key vault set up for data bricks credentials	1 days

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Approval Status	Approved
Approval Date	1/29/2025
Reason for Win/Loss 1	Relationship
Sub-Reason for Win/Loss 1	Consultant/Broker
Win/Loss Narrative 1	Client Relationship

Opportunities > RAD Treasury Assessment

Quotes

1 item • Updated a few seconds ago

	Quote Number	Primary	Quote PARR	Quote PTRR	Contract Effective Date	Created By
1	Q-712114	✓	USD 25,000.00	USD 25,000.00	1/20/2025	Dave Cheema

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Opportunity

RAD Treasury Assessment

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Opportunity
RAD Treasury Assessment

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Opportunity Information

Opportunity ID	O704231	PARR	USD 25,000.00
Opportunity Name	RAD Treasury Assessment	PTRR	USD 25,000.00
Account Name	UHG Corporate	Opportunity Currency	USD - U.S. Dollar
Growth Team	Payer	Stage	5 Sold
Growth Sub-Team Level 1	Payer - Business Unit	Probability %	100
Growth Sub-Team Level 2	Optum Advisory Team	Forecast Category	Won
Opportunity Type	New Business (NB)	Renewal Forecast	
Opportunity Sub-Type	Standard	PGs/SLAs Final Status	
Channel	Internal	Bid Status	
Primary Intelligence Submited		Finalist Date	
Price Book	Payer	Close Date	1/22/2025
Amended Contract		Opportunity Owner	Dave Cheema
Has Primary Quote	✓		

Description Information

Description	Conduct an assessment of Treasury Analytics and produce an assessment report
Next Step	

Members	0	Industry Sector	
PO Number		Access Level	
Client Project ID		Medical Plan Effective Date	
Situs State		Policy Number(s)	
Geographic Service Area(s)		RFP Expected Date	

Calculated Opportunity Values

PARR (New) (USD)	25,000.00	PARR (New)	25,000.00
PTRR (New) (USD)	25,000.00	PTRR (New)	25,000.00
PARR (Renewal) (USD)	0.00	PARR (Renewal)	0.00
PTRR (Renewal) (USD)	0.00	PTRR (Renewal)	0.00
		Prior Annual Value	USD 0.00
Archived PARR (New)	0.00	Renew By Date	
Archived PARR (Renewal)	0.00	Notification Date	
PARR + Archived PARR	25,000.00	Estimated Lives Qty	0
		Estimated Lives New Qty	0
		Estimated Lives Renewal Qty	0

Top Opportunity Tracking

Top Opportunity Flag	☐	Enterprise Must Win	
Top Opportunity Status			
Top Opportunity Indicator			
Top Opportunity Reason			

Win/Loss Information

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Opportunity
RAD Treasury Assessment

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One Optum 1-Click Reports

Optum Client 360	OPTUM Client 360	Related New/Renewal Opportunities	Related New/Renewal Opportunities
Opportunity Overview	Opportunity Overview		

Lead Information

Opportunity Overview | Opportunity Overview

Lead Information

Lead Id	Lead Source
Lead Originator	Primary Campaign Source

Optum Legal Agreement Details

Optum Legal Agreement Requested	Optum Legal Agreement Request Updated

Optum Legal Instructions

System Information

Created By	Dave Cheema, 1/3/2025 4:36 PM	Last Modified By	Jaana Debnam, 1/29/2025 10:28 AM
Opportunity ID 18 Digit	0065d000019u5VGAAY	Generate Renewal?	Yes
Approval Status	Approved	Renewed Contract	
Submitted Date	1/22/2025	Auto-Renew Contract Clause	
Approval Date	1/29/2025	Notification Period	
Opportunity Survey	Generate Survey Invitation	Renewed Opportunity Report	
Champion Parent EID	entities/BXWIJXp	Migration Opportunity	

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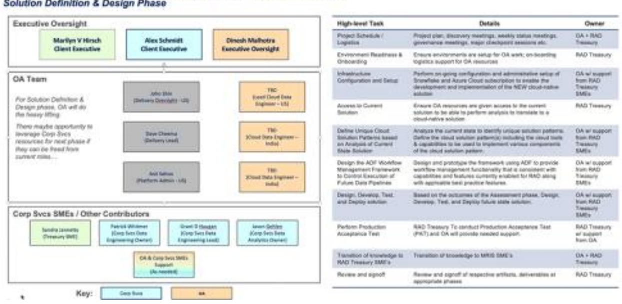
Project Start-up + Environment & Team Mobilization

Proposed Staffing, Roles and Responsibilities:
Solution Definition & Design Phase



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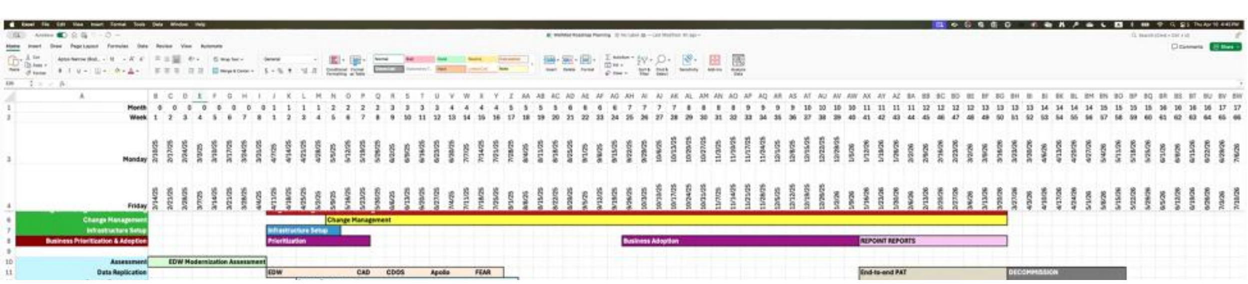
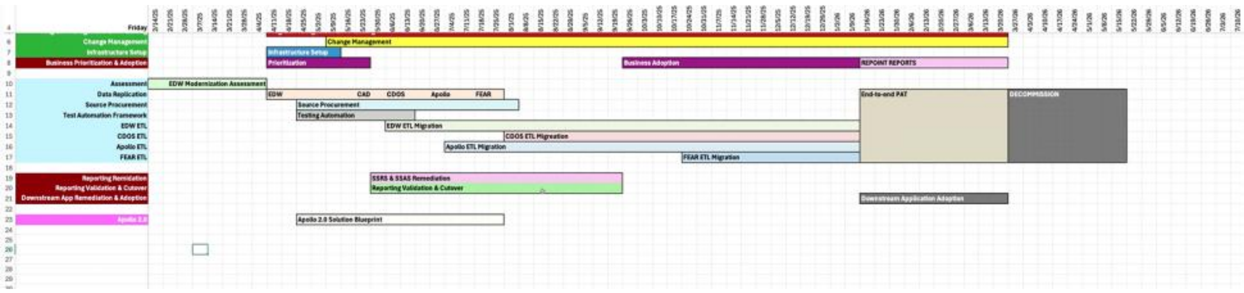
Platform environment Checklist	Hours
Infrastructure code creation Terraform(Plan, validate and apply)	34
Setting up Azure virtual network, Blob storage , ADF, Role assignment, IAM role,NSG	10
Grouping creation for environment in Secure	2
Snowflake set up and connectivity request IP whitelisting	6
CI CD set up for ADF and Snowflake prod environments	14
RAD service Account Set up for Snowflake environment	2
Email notification graph API Service principal configuration	4
ADF blob storage connectivity set up, Linked service connection	4
Storage Integration set up in Snowflake for Dev/Prod	4
SCIM Implementation	8
GRAPH API for email notification Testing	4
Linked service, Integration run time testing on ADF instance	4
Nonuser ID creation, ServiceNow creation Via secure for new application	8
ADF GitHub Integration and validation	2
Databricks snowflake connectivity, Mount storage connectivity	8
Key vault set up for data bricks credentials	4
Repository set up, secret adding into repo for Azure connectivity	4
Databricks Instance administrative tasks , managing permissions	4
Total Time	126





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We deeply value your trust in our expertise and are committed to delivering exceptional product for the **RAD Treasury Reporting & Analytics - Cloud Data Foundation** project. Upon completion and delivery of this project, RAD Treasury will have a functioning cloud-based data platform ready to serve end-consumers data products via data product subscriptions with proper data and compute resources automatically provisioned along with appropriate security controls, roles, and permissions.

Opportunities > RAD Treasury Reporting & Analytics - Cloud Data Foundation

Contact Roles

Add Contact Roles | Edit Contact Roles

2 items • Sorted by Primary • Updated a few seconds ago

	Contact Name	Role	Title	Primary	Phone	Email	Account Name	Status	Created By	Last Modified By
1	Alex Schmidt	Bill To		☐		alex_schmidt@uhg....	UHG Corporate	Active	Dave Cheema, 4/24/2025 2:00 PM	Dave Cheema, 4/24/2025 2:00 PM
2	Alex Schmidt	Ship To		☐		alex_schmidt@uhg....	UHG Corporate	Active	Dave Cheema, 4/24/2025 2:00 PM	Dave Cheema, 4/24/2025 2:00 PM

Opportunities > RAD Treasury Reporting & Analytics - Cloud Data Foundation

Files

Add Files

2 items • Sorted by Last Modified • Updated a minute ago

	Title	Owner	Last Modified	Size
1	RE_ Optum Advisory Payer Technology SOW - RAD Treasury Reporting & Analytics	Dave Cheema	4/24/2025 12:44 PM	164KB
2	Re_ Pricing Approval Request - O705067 RAD Treasury Reporting & Analytics - Cloud Data Foundation	Dave Cheema	4/17/2025 8:30 PM	144KB

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WellMed Central Quality SQL95 Data Modernization project
Based on our time tested experience to achieve a successful out of a data modernization project, we divide the project into the following phases:
Assessment
Solution Definition & Design
Dev, Test & Deploy
Production Acceptance Testing & Decommission

Assessment is the foundational step for a project's successful outcome. It enables us to understand the size of the project, complexities, nuances, special requirements, etc.
It is identify the type of solution it would require, components and services would be needed. Help us identify any POCs we would need to create; help us identify required skillsets, number of resources and the duration to complete it.

Without a detailed assessment, we would not know the size of the problem - it could present a significant risk for the WellMed Central Quality and Optum Advisory.

Meetings

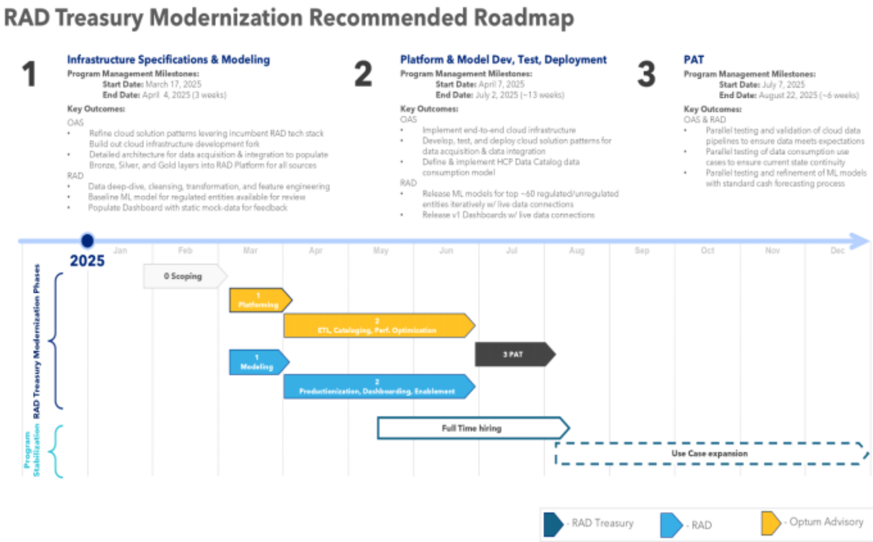
Tuesday, January 21, 2025 1:57 PM

Meeting 01/21/2025 with Alex and Patrick
Subject: Introductions and Project Overview

- Treasury - manages cash balance of our group and other entities - they manage cash
- They have many systems and data repositories
- Their processes are manual, labor intensive and delayed
- They need to modernize their platform and processes
- Treasury report to John Rex
- RAD is their foundation, which needs to be shared with the Treasury
- They don't have IT folks, only have OPS people
- Scope the effort to bring their env. into cloud environment
- Outcome - give a deep recommendation of amount of work in term of time, people and cost
- RAD will support from Patrick and Jason teams
- Let's get Minimal Viable Product, to scope how much effort is involved
- Alex has requested more documentation from the Treasury team
- At core, we will parachute in to walk the walk
- Scope infrastructure
- Treasury team needs some time - next week they will be ready

Alex's Timeline & Approach

Wednesday, March 12, 2025 5:31 PM



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Infra: $100K
ECIF Refund: $150K
Client Expecting to pay: $200K

accounting for <= $100K for cost he categorized as Infrastructure and ~$150K offset from ECIF. That makes me think he is expecting something in the $200K range for this Treasury data work.