LUMEN

THE PLATFORM FOR AMAZING THINGS

ASUG Colorado Chapter Meeting @ Lumen - 6 October 2023

Project Checkpoint: Lumen's active ECC upgrade to S/4 BRIM



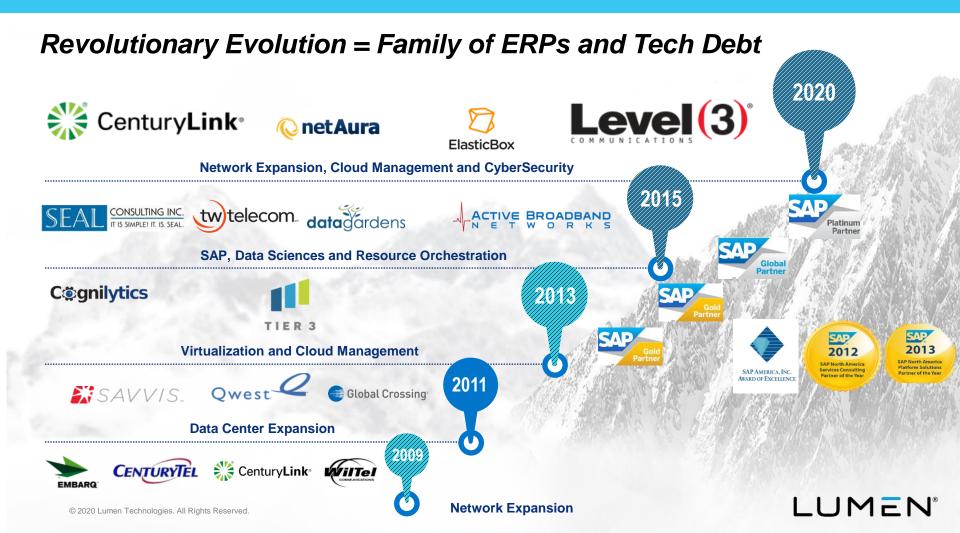


Michael La Torre

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Lumen Profile

- NYSE LUMN
- SAP Platinum Partner #10 of 10
- 38,000 Global Employees
- Founded 1968 in Monroe, LA
- One of the largest, most connected and most deeply peered networks in the world
- ~400K route miles of fiber
- ~160K on-net fiber locations
- Runs ~70% of world's internet
- SAP Customer since 1999
- ~1,300 SAP / ~3,200 Managed Services

- Our Purpose: Furthering human progress through technology.
- Our Mission: To digitally connect people, data and applications—quickly, securely and effortlessly.





Why Lumen for Public Sector?

- Lumen has mind-share in the C-Suite at Federal agencies
 - We protect .gov and .mil from DDoS attacks
 - DISA Indo-Pacific award for \$1.5B August 2022
 - We provide the vast majority of the fiber in DISA DISN \$223 million 2023 contract from the U.S. Defense Information Systems Agency (DISA)
 - Recent EIS awards include \$1.2B at both USDA and DOI.
 - We are partnered with the GSA on EIS, Networx, WITS3, MAS 70 and other vehicles
 - Lumen manages all of NASA's voice traffic and provide fast, secure network connectivity to NASA's more than
 15 space centers and regional research facilities.
- Lumen is one of only two providers of ECS data to DHS CISA
- · Lumen is finding and taking down C2 (bad actors) on the Internet daily
- Lumen has one of the largest IP footprints in the world, we are <u>THE</u> network and security experts
- Lumen has partnerships with specialists with targeted skills within Public Sector to augment our portfolio: Low Code/No Code, Augmented Reality, Free Space Optics
- Lumen has an extensive portfolio of disruptive networking capabilities launching now: Polymorphic Networking, Al/ML, SASE, Diagnostics as a Service, Network as a Service (NaaS)
- Lumen's Managed & Professional Services sells, deploys and supports SLED (State Local Government Education) SAP clients





Lumen Panel



Bill Marcinko

VP, Financial Intelligence & Operations



Kerry Youngblood

Director, Process Improvement CFS



Ben Merkel

Director, Financial
Strategic
Transformation



Durga Gorle

Director, Software Engineering



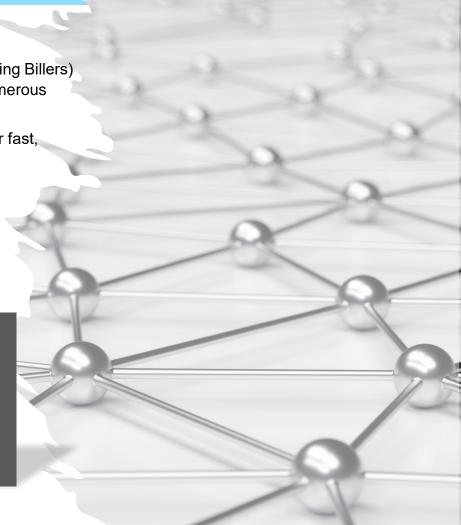
Lumen's ERP: SAP

- The ERP ecosystem (4 ERP's and ~600 satellite systems including Billers) is 20+ years old and our fragmented architecture consists of numerous custom legacy applications.
- The legacy SAP data model does not support Lumen's needs for fast, efficient and complete reporting, analysis and operations.
 - US GAAP is *not* the Primary ledger
 - Not leveraging Profit Centers correctly
 - Highly dependent on data warehouses/lake to combine data sources
 - · Location, Product, Customer

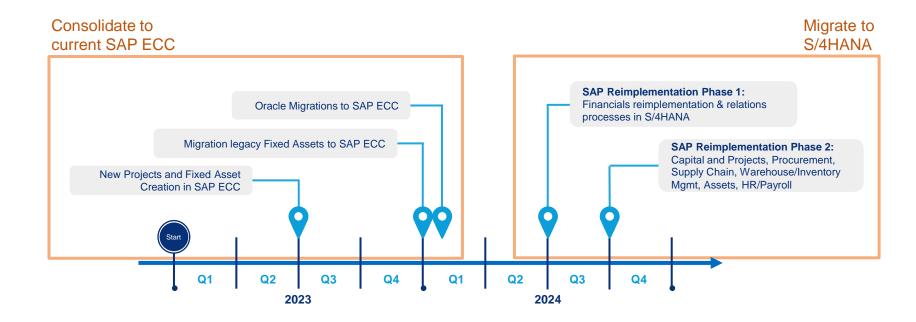
Approach

Greenfield implement of SAP's S/4 HANA and retire over 100 satellite and supporting systems over ~2 years in 2 Phases:

- Financials, Consolidated Accounts Receivables & Collections
- Supply Chain, Procurement, Inventory Management
 HR & Payroll



ERP Transformation Program Journey





ERP Transformation Program Benefits

+	1	2	3	4	5
North Star Priority	Develop Customer Obsession	Innovate and Invest for Growth	Build a Reliable Execution Engine	Radically Simplify our Company	Further Develop our Culture
ERP Transformation Program Enabler	Combine Product and Customer data together with transaction details, leading to fewer disputes for invoice issues	Refine and adopt streamlined business processes Simplify master data and improve data quality Move from fully on-prem to a cloud system landscape Automate testing	Align to standard, best practices from SAP and IBM With SAP NS2, we will receive support managing our systems directly from SAP	Simplify the technical landscape – reducing the number of managed systems	Improve the employee experience by adopting more standard business processes, enabled by technology More efficient and accurate data insights that provide clarity
Business Benefit Highlights	 Improved linkage for understanding Customer behavior Matching customer payments to invoices! Simpler billing processes 	Compounding innovation — simplifying processes will allow Lumen to more quickly make future enhancements More quickly enhance systems by going to the cloud Reduced business need to participate in Hot Pack regression testing cycles	Easier adoption of system enhancements SAP will facilitate enhancements and updates; continuous alignment with industry best practices	Have 30+ fewer applications to support, integrate, manage, and audit	More streamlined experience to manage work responsibilities supporting a growth mindset
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Finance Standardization and Simplification

Quad-A	BPH Count	%
Add	7	1.8%
Adjust	220	55.7%
Adopt	168	42.5%
Grand Total	395	100%

- Lumen Guiding Principal is maximum 20% customizations (Adds). Less is better.
- Phase 1 Add (customizations) is currently 1.8%
- Adjust are minor modifications to functionality.
 Most are driven by BRIM which is not part of the IMPACT model.

ERPT - Finance Master Data Scorecard:

	Before	After	Percentage Reduction
Company Codes	305	191	37%
GL Accounts	11300	1300	88%
Cost Centers	7800	2100	73%
Allocation Accts	800	33	96%
SKF's	37	10	73%
Allocation Cycles	1300	4	100%

- Source 1: "The reduction in G/L accounts and allocation accounts are impressive."
- Source 2: "The figures below look good, good to show them, and they indicate savings in commodity transaction processing or [ability] to produce information to make decisions; that is how I would measure success."
- Source 3: "These metrics are very contextual but at a high level, simpler is often better and this is a simplification. I do think the data you provided looks good."



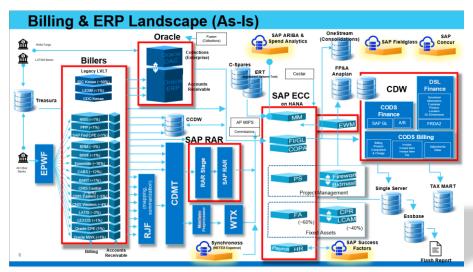
As-Is Landscape vs. End-State Solution

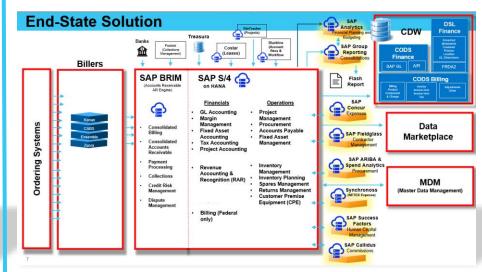
Billers-SAP-Datawarehouse Ecosystem

We need to *radically* simplify our Company.

Kate Johnson Lumen CEO on 2023 Core Priorities for Lumen North Star Call Jan 18th, 2023







Our payroll processes will be on Employee Central Payroll Cloud (separate SAP instance)



Impacts to the business (People, Processes, Technology)

BRIM focuses on invoicing, consolidated accounts receivable, collections, payment processing, dispute adjustments, and credit risk management.

Assessing Change Impacts				
High (H)	Complex business change, large audience, several actions may be needed for successful implementation			
Medium (M)	Moderate business change, may require a few additional actions beyond training and communication			
Low (L)	Minimal business change, easy adoption with training and communication			





BRIM

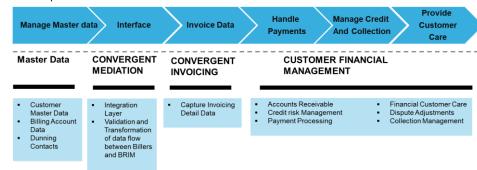
Billing Revenue Innovation Management

- Consolidated AR
- Consolidated Invoicing
- Comprehensive Credit Risk Management
- Transform Payment Applications with Machine Learning and AI

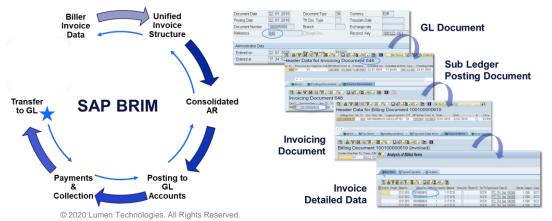
BRIM Overview

SAP Billing and Revenue Innovation Management (SAP BRIM) will enable Lumen to consolidate Accounts Receivables information and simplify how we handle payments and provide customer care.

BRIM Scope:



Traceability of Invoiced details data from GL



Biller Invoice Data to Sub ledger data flow

- Biller Invoice data Prep
- · Unified Invoice detail data in BRIM
- Generate Biller Invoice data document
- Create Consolidated AR (Open Items)
- Payment Processing
- Unidentified / Clarification processing
- Dunning and Collections
- Transfer to GL



Questions?

Thank you for your time!







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