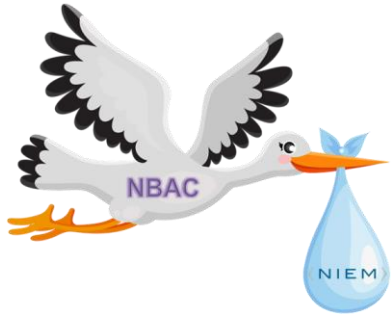
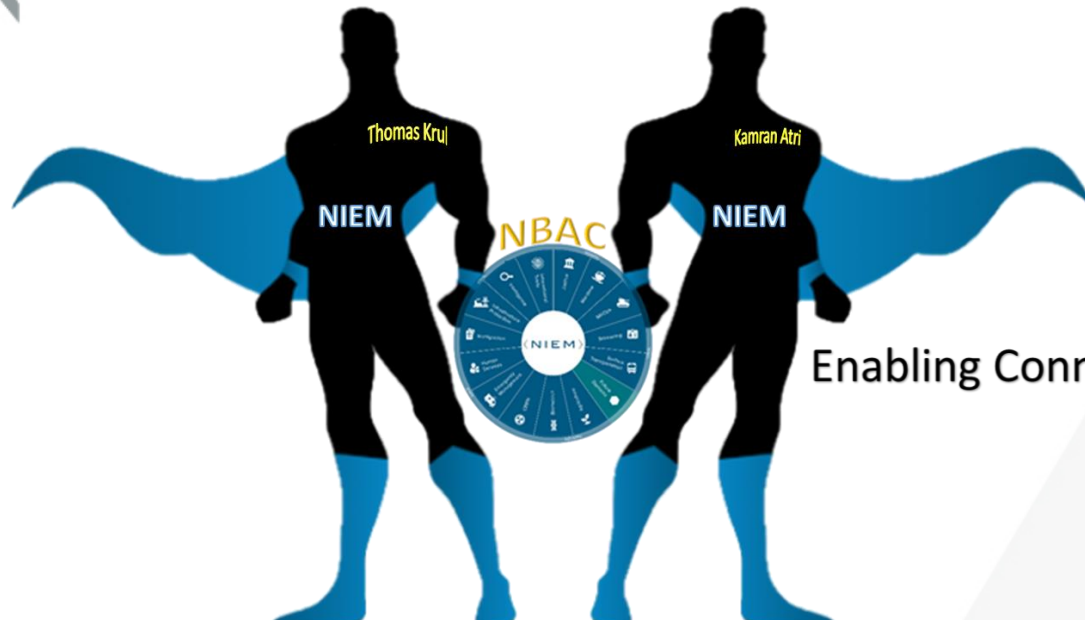


NIEM NBAC F2F 2021



Session IV – Importance Of Training

< NIEM >™



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SESSION IV – IMPORTANCE OF TRAINING

NBAC ANNUAL MEETING - DAY 2

NBAC Annual Meeting (Wednesday, 15 September 2021)

PM Session

Location: Virtual - MS TEAMS

1 - 1:05	Introduction/Agenda	NBAC Co-Chairs (Mr. Kamran Atri & Mr. Thomas Krul)	<ul style="list-style-type: none"> Welcome Agenda
1:05 - 1:30	Guest Speakers	Mr. Paul Wormeli & Mr. Michael Phillips (SLTT Co-Chairs)	<ul style="list-style-type: none"> NIEM State, Local, Tribal & Territorial Tiger Team "Best Practices & Training"
1:30 - 1:50	Session Introduction	Mr. Kamran Atri	
1:50 - 2	Break		
2:00 - 2:50	Session IV - NIEM Importance of Training Guest Speaker	Mr. Kamran Atri Mr. Michel Savoie (Employment and Social Development / Government of Canada (ESDC)) & Ms. Tsegenet Telda (ESDC)	<ul style="list-style-type: none"> Importance of Training IEPD Steps for Project Discovery & Development Information sharing impacting data to day operations What are some of the information sharing pitfalls?
2:50 - 3	Q&A/Wrap-up/Action Items	NBAC Co-Chairs (Mr. Kamran Atri & Mr. Thomas Krul)	<ul style="list-style-type: none"> Closing

HOUSEKEEPING:

Session Speakers

– Primary Facilitator

- Kamran Atri



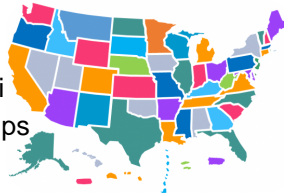
– Support Facilitator

- Thomas Krul



– Guest Speakers

- NIEM SLTT Co-chairs
 - Paul Wormeli
 - Michael Phillips



– Guest Speaker

- Michel Savoie



- Tsegenet Tedla



- ***MUTE** your mic when you're not talking*
- ***Identify yourself before you start to speak***
- ***Speak clearly***
- ***Disable “call waiting” feature***
(the clicking noise can be heard by all)

Please note: All 2021 sessions are audio recorded for NIEM training & communications purposes

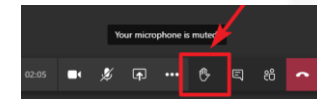
QUESTIONS & ANSWERS ARE ENCOURAGED!

To signal you want to contribute without interrupting the speaker

- Enter comments via **CHAT** window at any time

To signal a question or respond to a question

- Click on '**Raise your hand**' button on meeting toolbar



(Lower hand after you've talked by clicking hand button again)

All session briefings are available on **NIEM's GitHub** for download as they occur

<https://github.com/NIEM/NIEM-Annual-Meetings/tree/master/2021>

REMINDER:

- *Every NBAC member shares and is part of NIEM decision-making process.*
- *We will seek consensus for decisions arising from the NBAC F2F 2021.*
- *The TEAMS meeting (s) will be recorded, action items assigned, and decisions implemented.*
- *We plan to adhere to the topics and schedule as outlined in the Agenda.*
- *Don't be shy, speak up when you have something to say.*
- *Ask questions if you are unclear or unsure... share your views.*
- *Expand your professional network here with your fellow data standards gurus.*

NIEM SLTT TIGER TEAM

SLTT Mission:

INCREASE THE USE OF NIEM TO FACILITATE
CROSS DOMAIN INFORMATION EXCHANGES FOR
SLTT AGENCIES AND ORGANIZATIONS TO
IMPROVE THE SAFETY AND QUALITY OF LIFE
FOR OUR CITIZENS

CO-CHAIRS:

Mike Phillips
Vice President
SLG Innovation

Paul Wormeli
President
Wormeli Consulting

NIEM SLTT TIGER TEAM

STRATEGIES

- Define Market Priorities
- Analyze NIEM contributions
- Establish clear business case
- Communicate with market segments and provide training
- Build and energize resources for implementation
- Establish a sense of controlled urgency

NIEM SLTT TIGER TEAM

TACTICS

- Cross Domain solution focus
- Create an active community exchange
- Promote special conditions on grants related to information sharing
- Increase communications to SLTT influencers
- Train executives, middle managers and developers

2021 STATE CIO PRIORITIES

1. Cybersecurity and risk management
2. Digital government/digital services
3. Cloud services
4. Broadband/wireless connectivity
5. Budget, cost control, fiscal management
6. Data management and analytics
7. Consolidation/optimization
8. Identity and access management
9. Workforce
10. Customer relationship management

Priority Scenarios

- **Cyber Incident Reporting**
- **FEMA Claim Submission**

Source: NASCIO Survey

NIEM SLTT TIGER TEAM

SUPPORT PRODUCTS

Executive briefing materials

Articles for association publications

Refresh selected videos

NIEM applications catalog

Active speaker's bureau

Case Studies

Selective webinars targeted at SLTT domains

Grant special condition language

NIEM SLTT TIGER TEAM

SUPPORT PRODUCTS

Executive briefing materials	X
Articles for association publications	X
Refresh selected videos	PENDING
NIEM applications catalog	PRELIMINARY
Active speaker's bureau	STARTUP
Case Studies	NOT YET
Selective webinars targeted at SLTT	X
Grant special condition language	PARTIAL

SLTT PROGRESS POINTS:

- On Github at <http://niem.github.io/community/slitt/>
 - Executive briefing materials
 - Success Stories
 - Calendar
 - Opportunities
 - Articles released
 - NIEM moving forward
 - FEMA program guide
 - NIEM MO releases
- ▶ Executive Briefings
 - ▶ New Mexico
 - ▶ PTI podcast
 - ▶ IJIS
 - ▶ SEARCH
 - ▶ JRSA
 - ▶ NLETS (planned)
 - ▶ DAMA (planned)

NIEM SLTT TIGER TEAM

MILESTONES

90 days:

- Executive briefing package completed
- Association engagement
- Action Team Identified
- Scenarios Prioritized



180 days

- Target Scenarios Finalized
- Articles published in association media
- Briefings to SLTT executives in target domains
- Expanded training offered



270-360 days

- NIEM projects initiated
- Success Stories / Case Studies

NIEM SLTT TIGER TEAM

**MOVING
FORWARD**

Expand communications channels

Add more briefing materials

Articles for association publications

Create training videos

Refine NIEM applications catalog

Activate speaker's bureau

Document Case Studies

Selective webinars targeted at SLTT

Grant special condition language

NIEM SLTT TIGER TEAM



PLEASE COME AND ENJOY THIS
JOURNEY

**The third Monday of every
month at 3:00 p.m.**

pwormeli@wormeliconsulting.com

michaelphillips@slginnovation.com

NIEM TRAINING UPDATE:

- GTRI in support of NIEM PMO, Updating NIEM Developer training materials



- Test run of class being hosted week of September 27

- Test run is to receive feedback on materials and overall class

- Information for how to sign up will be sent this week, or you can send Katherine Escobar your contact information directly.

A promotional banner for NIEM live training. The banner is blue and white. On the left, there is a circular diagram titled "THE IEPD LIFECYCLE" with six stages: "DISCOVER", "DESIGN", "DEVELOP", "DEPLOY", "DOCUMENT", and "DISTRIBUTE". Above the diagram is the NIEM logo and the text "Discover the value of NIEM". Below the diagram is a blue box with a calendar icon and the text "SEPTEMBER 28 - 30, 2021 1 PM - 4 PM (ET)" and a green "REGISTER NOW" button. At the bottom left, it says "Contact Us Information@NIEM.gov". On the right, the text "LIVE TRAINING" is in yellow, followed by "National Information Exchange Model (NIEM)" in white. Below this, it says "A technical webinar focused on **developers and implementers** who are interested in a deep-dive of NIEM." and "This course includes hands-on exercises focused on designing an Information Exchange Package Documentation (IEPD) / Message." There is a photo of Tom Carlson, a man with blonde hair, wearing a blue shirt, with his hands clasped. Below the photo, it says "Featured Speaker : Tom Carlson Consultant". At the bottom right, it says "LIVE VIA MICROSOFT TEAMS" and "www.niem.gov".

BEST PRACTICE:

IEPD Development and Execution

MICHEL SAVOIE



As a pioneer of interoperability within the Government of Canada, Michel Savoie has spent more than 25 years dealing with the challenges of delivering high quality services to citizens. More recently, he has spent more than 12 years developing solutions for interoperability challenges within government departments.

As Director of Interoperability Solutions at ESDC, he is leading the interoperability component of the most ambitious transformation project that the Government of Canada has undertaken in its delivery of social programs.

Michel has spoken about and advised numerous groups on his experiences delivering interoperability solutions within governments.

Within the public safety area, he successfully got NIEM officially endorsed by the Canadian Association of Chiefs of Police as the model of choice for information exchange. His team uses NIEM as it develops interoperability solutions for programs related to immigration, employment, pension, and finance.



Data steward of a new NIEM Domain



TSEGENET TEDLA



- Ms. Tsegenet Tedla worked as Senior Business Systems /Programmer Analyst in private sector for eight years before joining ESDC in 2001.
- A Project Leader for EI Intake systems databases 2006 -2016 and have taken key roles in several modernization projects.
- She has been part of the team nominated as finalist in 2007 Government Technology Exhibition Conference (GTEC).
- Ms. Tsegenet has received certificate of appreciation for her contribution in 2011 for Secure Channel Transition project.
- Since 2017 she has been working as Technical Advisor for Data Interoperability using NIEM.



Interoperability Solution Division (ISD)

National Information Exchange Model (NIEM) Interface and Processes Definition Presentation

By Tsegenet Tedla
September 2021



Data Interoperability Team Roles & Responsibilities

Supporting ISD to make meaningful contribution to ESDC data standardization effort using NIEM.

Evaluate, and enhance data interoperability process for defining interfaces by identifying and documenting the existing process and steps for sharing data.

Develop guidelines for new developers onboarding.

Implement agile principle based development process that break down IEPD development activities to tasks that works (fits) in sprint cycle.

Research and develop the steps required for data exchange using NIEM and a Contract First approach to Application Programming Interface (API) development.

Collaborate with ISD and IITB developer community to improve and promote adoption of NIEM based message exchange.



Why Standardize?

To provide consistent service in data interoperability and to enhance information exchange capabilities.

To eliminate ambiguity in the meaning of data by using a common vocabulary.

To support data standardisation by encapsulating legacy data.

To share and reuse already developed IEPDs (messages) fully or partially across ESDCs program areas.

To benefit from shorter development time which will result in reduced cost by reusing existing IEPDs.



Discussion (Demo) Agenda

IEPD Developer Onboarding

Build & Validate

Analyzing Client Data & Developing API

Define an Exchange Schema (XSD)

Exchange Content Definition (Exchange Requirement)

Mapping Source & Target Data to NIEM

Linking Partner Data with NIEM Data

Defining Open API Contract from NIEM Payload

Generate A JSON Example

Defining NIEM Compliant openapi 3.0 YAML Example

Create an open API Definition (Domain)

Create an open API Definition (Model)

Generating Class from YAML

Sprint Activity

Sprint (X-1) Discovery Activity

Sprint (X) Design Activity

Sprint (X+1) Implementation Activity

Product Mapping

Example Employment Insurance (EI) Part II

EI Part II Common Input Requirements

EI Part II Define Program Contact and Tombstone Data of a Client

EI Part II EI Claim Information

EI Part II Eligibility Status of a Client

Generic Header Parameters & Fault Object

Product Mapping Template

IEPD Packaging



Information Exchange (Data) Interoperability Home Page Demo

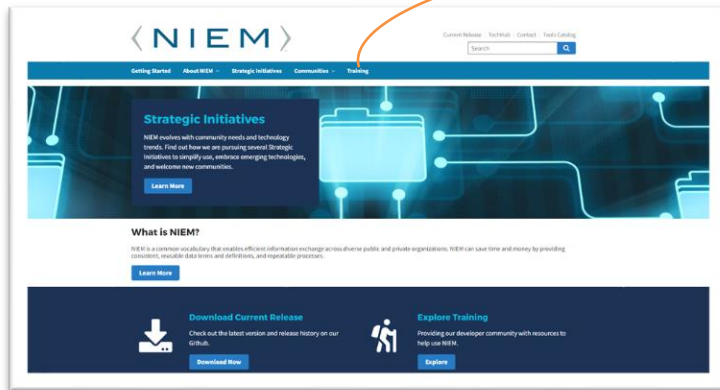
1. Information Exchange (Data) Interoperability	2
1.1 1-SPD Developer Onboarding	3
1.2 2- Build & Validate	4
1.2.1. Analyzing Client Data & Developing API	5
1.2.2. Define an Exchange Schema (XSD)	6
1.2.2.1 Exchange Content Definition (Exchange Requirements)	6
1.2.2.2 Mapping Source & Target Data to XSD	9
1.2.2.3 Linking Partner Data with XSD Data	10
1.2.3.3. Defining Open API Contract from XSD Example	11
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1.2.3.2.2 Defining XSD Content Example 3.0 YAML Example	12
1.2.3.3.3 Create an Open API Definition (Example)	16
1.2.3.4.4 Create an Open API Definition (Model)	20
1.2.3.5.5 Generating Class from YAML	22
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1.3 3- Product Mapping	24
1.3.1 E1 Part II	25
1.3.1.1 E1 Part II Common Input Requirements	26
1.3.1.2 E1 Part II Define Program Context and Transform Data of a Client	32
1.3.1.3 E1 Part II E1 Claim Information	32
1.3.1.4 E1 Part II Eligibility Status of a Client	40
1.3.1.5 Generate Header Parameters & Fault Object	44
1.3.2 Product Mapping Template	45
1.4 Assemblies & Tests	53
1.5 Open Activity	54
1.5.1 Sprint (Sx-1) Discovery Activity	55
1.5.2 Sprint (Sx) Design Activity	56
1.5.3 Sprint (Sx-1) Implementation Activity	57



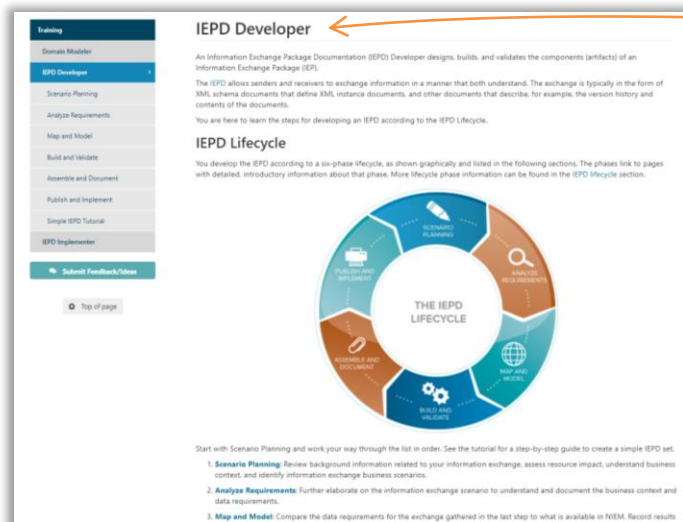
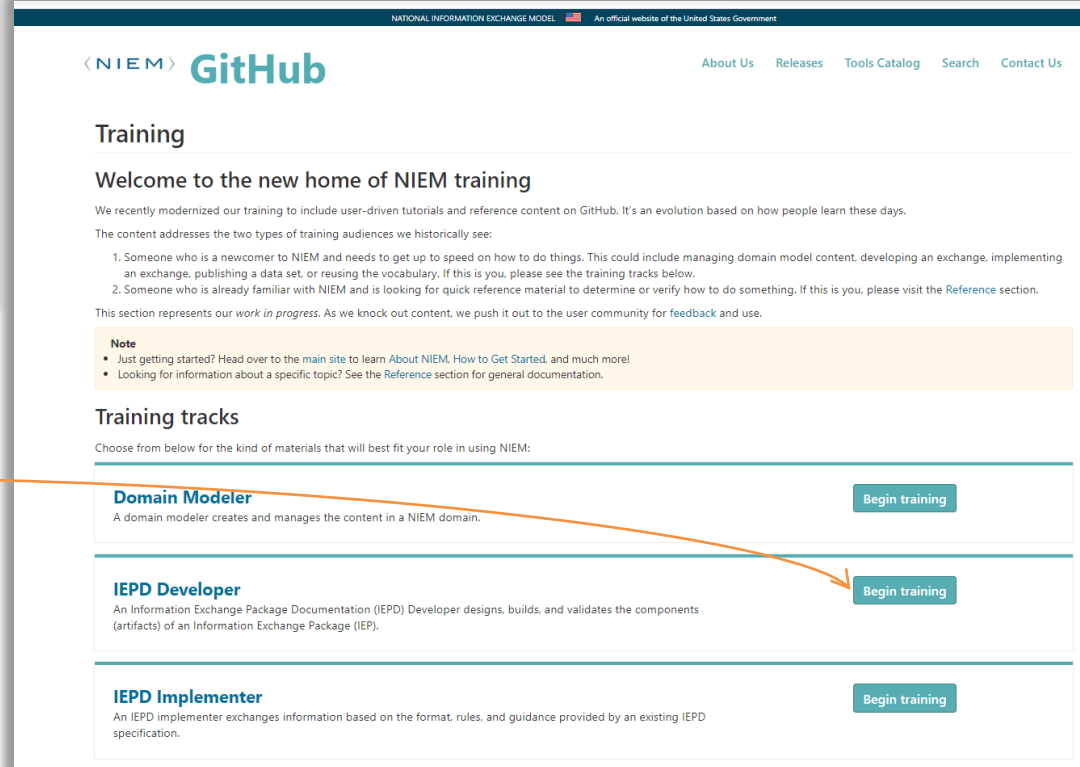
Questions



NIEM TRAINING UPDATE:



Training

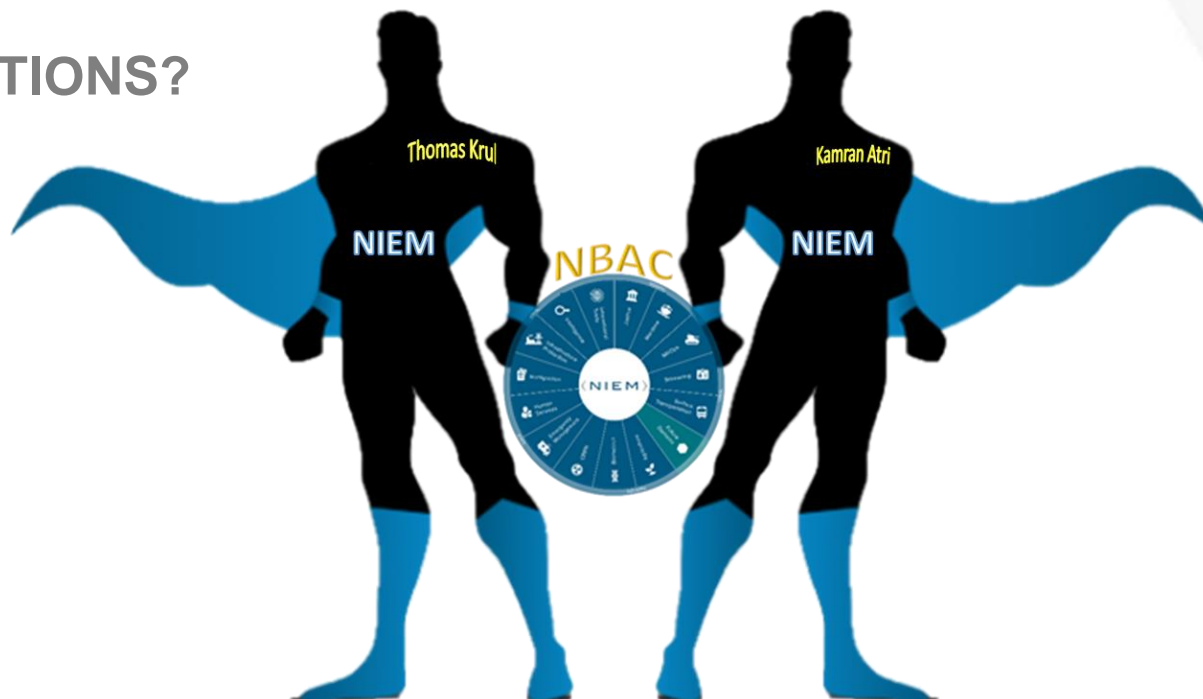


Q&A

- **NIEM Plays a Key Role in:**
 - Designating an Organization as a “ **Data Driven Organization** ”.
 - Organizations that must Consume, Access, Manipulate, Manage, Analyze, Standardize, Share and Distribute all Available Data from Existing or New Potential Data Sources.
 - Data Architecture, Data Management and Data Engineering, the Key Components of any IT Modernization Life Cycle.

Enabling Connected ~~Future~~ Now

QUESTIONS?



➤ Thomas Krul



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NBAC Co-Chairs



➤ Kamran Atri



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NBAC Co-Chairs



➤ Stephen M. Sullivan

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NBAC Secretariat –NIM PMO

NEXT NIEM F2F SESSION V – ROAD TO SUCCESS

NBAC ANNUAL MEETING - DAY 3

NBAC Annual Meeting (Thursday, 16 September 2021)

AM Session

Location: Virtual - MS TEAMS

Time (EDT)	Subject	Speaker (s)/ Facilitator(s)	Description
10:-10:05	Introduction/Agenda	NBAC Co-Chairs (Mr. Kamran Atri & Mr. Thomas Krul)	<ul style="list-style-type: none"> Welcome Agenda
10:05-1040	Introduction/Brief Contributing OASIS Representatives	Ms. Katherine Escobar Ms. Carol Geyer & Mr. Chet Ensign (OASIS)	<ul style="list-style-type: none"> Standardization
10:45-11:00	Break		
11 - 11:50	Session V - Road to Success Guest Speaker	NBAC Co-Chairs (Mr. Kamran Atri & Mr. Thomas Krul) Mr. Poewan Lau	<ul style="list-style-type: none"> Projects From Last Year Big Wins Projects for Next Year/Future
11:50 - 12	QA/Wrap-up/Action Items	NBAC Co-Chairs (Mr. Kamran Atri & Mr. Thomas Krul)	<ul style="list-style-type: none"> Closing