**Deliverables**as drafted on 13 Dec 2017

+ minutes from 08 March 2018 *marked red*

**In a nutshell**

* Provide standards for the description of Input Request and Output Response,
based on CCL / MMT.
* Provide basic principles for Webservice usage and implementation /
design guideline. Make recommendations on best practices.
* Provide reference implementation of some pilot Webservices, based on the proposed standards. Also a manual describing the underlying business process.
Make this publicly available.
* Create a marketing document, describing the intentions of this Workgroup.

 **In detail**

1. **Webservice candidates as pilot / demonstrator**🡺 There is some reservation against the two candidates that were nominated in last meeting (Dec.2017), therefore now a 3rd candidate is added:

1st candidate: “**Get container master data**”
Remark: As Peter points out, there exists a similar API from the BIC to be used for their BoxTech database. It's simple, REST-based, done with SWAGGER/OpenAPI and public:
<https://bic-boxtech.github.io/BIC-Boxtech-API-documentation/index.html>
Since this Webservice serves a very similar purpose, it might be used as a role model for the future SMDG Webservice.
 🡺 SMDG should reconcile with the BIC regarding their existing Webservice !
As part of this, compliance of input/output data fields with CCL/MMT recommendations should be evaluated .

2nd candidate: “**Send VGM”**
🡺 possibly too complex to be implemented as a reference because the receiver needs
 to apply multiple checks against his booking database. Also security issues seen.

3rd candidate *new*: **Track and Trace Container**
🡺 discuss security aspect: can anyone request T&T data for any container? Or is he required to provide also the booking number?
2. For each Webservice candidate: Define the **input request and output response** data elements. Decision: Format of description will be **OpenAPI 2 (SWAGGER)**.

Draft:

	1. **Get container master data
	Input Request:**- Container number **Output Response:**- Size Type
	- Tare Weight
	- Max Gross Weight
	2. **Send VGM**
	**Input Request:**- Container number (mandatory)
	- Booking number (optional)
	- B/L number (optional)
	- Date and place of weighing (optional)
	- Responsible Party
	- Name of responsible person with contact details
	- The VGM **Output Response:**- Accept or Reject with reason
	3. *new* **Track and Trace**
	**Input Request:**- Container number **OR**
	- Booking number **OR**
	- B/L number
	 **Output Response:**- Container Number
	plus FOR EACH CONTAINER:
	 - Type of event (gate-in, gate-out, load, discharge)
	 - Date/Time of event
	 - Place of event:
	 UN/Locode plus Terminal Code (Sea- or Inland terminal) **OR**
	 Geo Coordinates (Lat+Lon)
	 - Temperature reading inside the container
3. Research and coordinate the scheme for **input+output data** with **the CCL / MMT** /
or others **CCL =** UN/CEFACT Core Component Library of business data **MMT =** Multi Modal Transport reference data model is a subset of the CCLThe MMT can be downloaded here:
[https://uncefact.unece.org/display/uncefactpublicreview/Public+Review%3A+Multi+Modal+Transport+Reference+Data+Model](https://uncefact.unece.org/display/uncefactpublicreview/Public%2BReview%3A%2BMulti%2BModal%2BTransport%2BReference%2BData%2BModel)

To establish a formal synchronization procedure for working with the CCL/MMT and with the UN/CEFACT experts in this project.
*🡺* Ray will reach out to Sue and Lance who are the UN/CEFACT experts on this
Ray will contact Lance and ask for hands-on approach on how to use the CCL/MMT. Ray will provide the Input+Output data as per above and ask how this actual example can be modelled using the MMT elements and syntax.
*🡺* Ray will set up a call before the next SMDG meeting.
*🡺* schedule a f2f meeting in Geneva during the UN/CEFACT Forum in April 2018
4. Create a ‘**sandbox’** for definition of the SMDG pilot Webservices for reference implementation. Restrict access to workgroup members.
Identify and obtain commitment from reference prototype participants.

*🡺 Ray offers to facilitate this within Hyland IT infrastructure, which is appreciated.
It is in progress at Hyland*
5. Description of **basic principles** for SMDG Webservice usage and
implementation / design guideline.
This includes a recommendation of how to handle **security and authentication.** *Action: Peter, Daniel and Olaf*🡺 SMDG shall make recommendations on best practices.
🡺 see first draft: SMDG Guideline Draft\_v0.docx from Olaf.
 Any comments are invited!
6. For each pilot Webservice:
Create a manual =
Description (free text document) of the Business Process covered by that Webservice and the target audience Try to include it in the OpenAPI document.
Description of the input / output data (written in OpenAPI 2).
Remark: A further technical Implementation Guide is not considered necessary.
7. **Reference implementation** of the Webservice. Pilot candidates shall be created in the sandbox.
🡺 Possible next step: SMDG might become a Service Provider using Webservice for the
 maritime industry; SMDG could act as a “Proxy” (proposal from Peter)
8. Create a **marketing document**, describing the intentions of the SMDG Webservice Workgroup and the desired outcome of the initial reference implementation.
*🡺 Peter and Ray to start*
9. Roadmap and timeline