**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>   
     
   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