

# **IDC Working Group Update**

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HRS Interoperability Working Group Update

9-Jul-2019

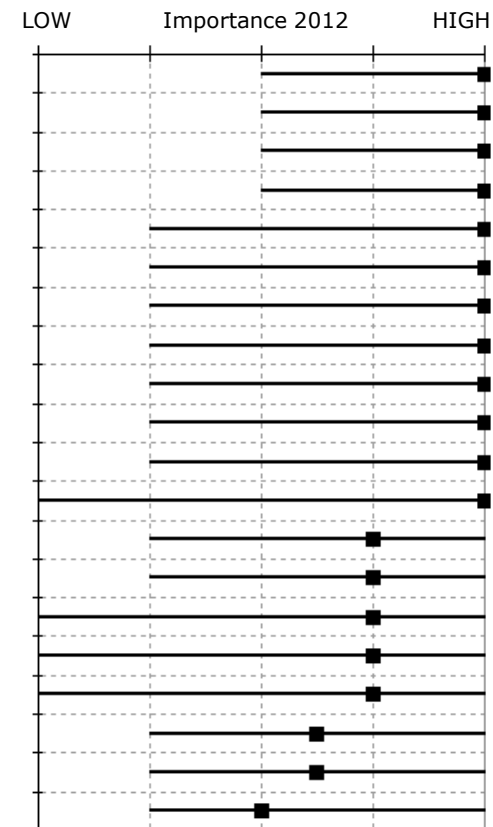
# Steps for Completion of version 1.1

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1. Establish what will be in 1.1 and agree on clinical content with HRS Interoperability workgroup (Technical and HRS groups)
  - Complete
2. Define all technical details for all parameters (Technical)
  - See follow slides
3. Work with IHE, IEEE, and NIST to update standards/tooling (Technical); publish IHE updates, draft IEEE nomenclature
  - Discussions ongoing with NIST, IHE
4. Complete Connectathon (Technical)
  - Goal: January 2021
5. Publish any necessary updates due to Connectathon
6. Balloting for IEEE nomenclature approval

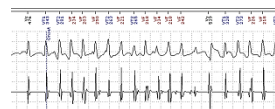
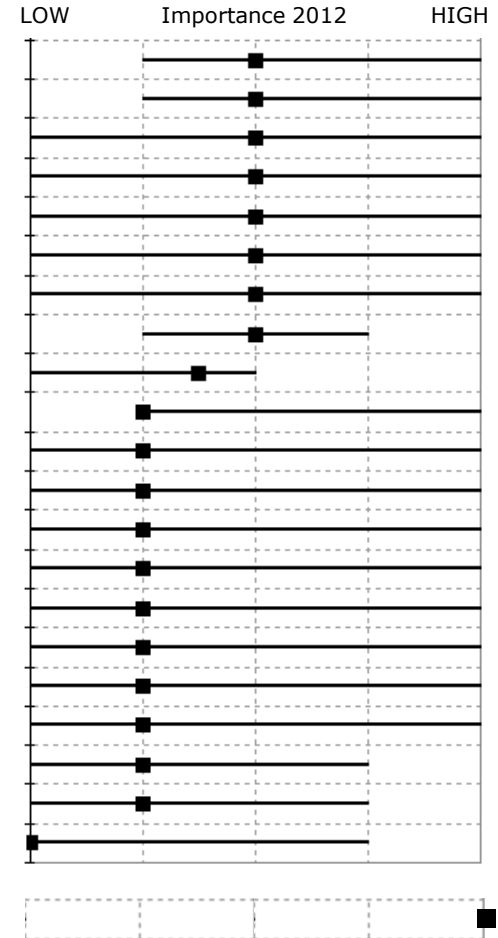
# IDC Nomenclature (ISO/IEEE 11073-10103) development status based on the parameter survey from 2012 with HRS clinicians

Recent device programming date/time and/or program counter	⊘
Mean ventricular heart rate at atrial burden	✓
Lead/Device recall information	✓
Multisite Left Ventricular Pacing parameters	✓
Counters for shocks started/successful and ATPs successful	✓
Number and energy of shocks applied per episode (machine readable)	✓
Number of ATPs applied per episode (machine readable)	✓
Message triggers / alert summary (urgency) => <i>Notifications</i>	✓
RV pacing avoidance algorithm name and status	✗
Message trigger categories	✓
MRI parameters	⊘
Patient Pacemaker Dependant? (YES/NO)	⊘
Message triggers / alert summary (compact)	⊘
Shock waveform parameters	⊘
PVARP	✗
Patient activity	⊘
Message triggers / alert summary (long)	✓
RA/RV/LV sensing configuration	⊘
More vendor specific entries in lists of episode types, brady modes	✓
Thoracic impedance	⊘



# IDC Nomenclature (ISO/IEEE 11073-10103) development status based on the parameter survey from 2012 with HRS clinicians

- Mean A/V heart rate at rest/night
- AF Suppression algorithm info (ON/OFF)
- PVARP after PVC/PAC
- PVAB / Far-field protection window after Pace
- PVAB / Far-field protection window after Sense
- Patient comments if stored in device / system (medication, indication,...)
- Date of the next scheduled in clinic / remote follow-up(s)
- Rate adaptation settings (for brady pacing)
- LVPP / TWPP (ON/OFF)
- Post shock pacing settings (brady mode, basic rate, ...)
- RVB
- LVB
- RARP (ARP)
- RABP
- RVRP (VRP)
- LVRP
- Rate adaptation sensor type (coded and machine readable)
- IVRP
- LVPP / TWPP
- Respiratory Rate
- Heart Rate Variability (HRV)



Machine readable EGMs







EGMs via PDF   
already available since V1.0

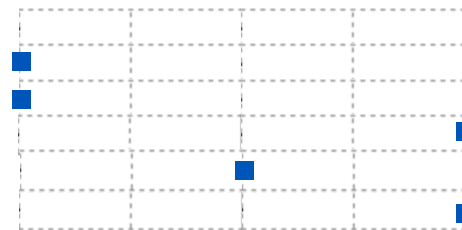
MIN —■— MAX  
MEDIAN

# IDC Nomenclature (ISO/IEEE 11073-10103)



## Additional content identified after the survey 2012

LOW Importance 2016 HIGH

- Nomenclature versioning 
- DFT test parameters 
- Heart rates for AV-delay ranges 
- Universal Device Identifier (UDI) 
- Trend data 24h 
- Trend data last weeks/months 



### ***New Device Types***

- Parameters related to subcutaneous ICD 
- Parameters related to leadless pacemakers 



■ Rating Dr. Rosier